

CUMI

ABRASIVES FOR

FABRICATION & WELDING INDUSTRY

PRODUCT
CATALOGUE

CARBORUNDUM UNIVERSAL LIMITED

CUMI

INDEX

ABOUT US

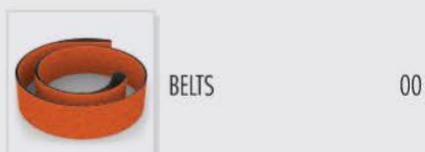
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BONDED ABRASIVES



COATED ABRASIVES



NON WOVEN ABRASIVES



CUTTING & GRINDING WHEELS



FABRICATION & WELDING INDUSTRY

BONDED ABRASIVES



CARBORUNDUM UNIVERSAL LIMITED

BONDED ABRASIVES

About Bonded Abrasives

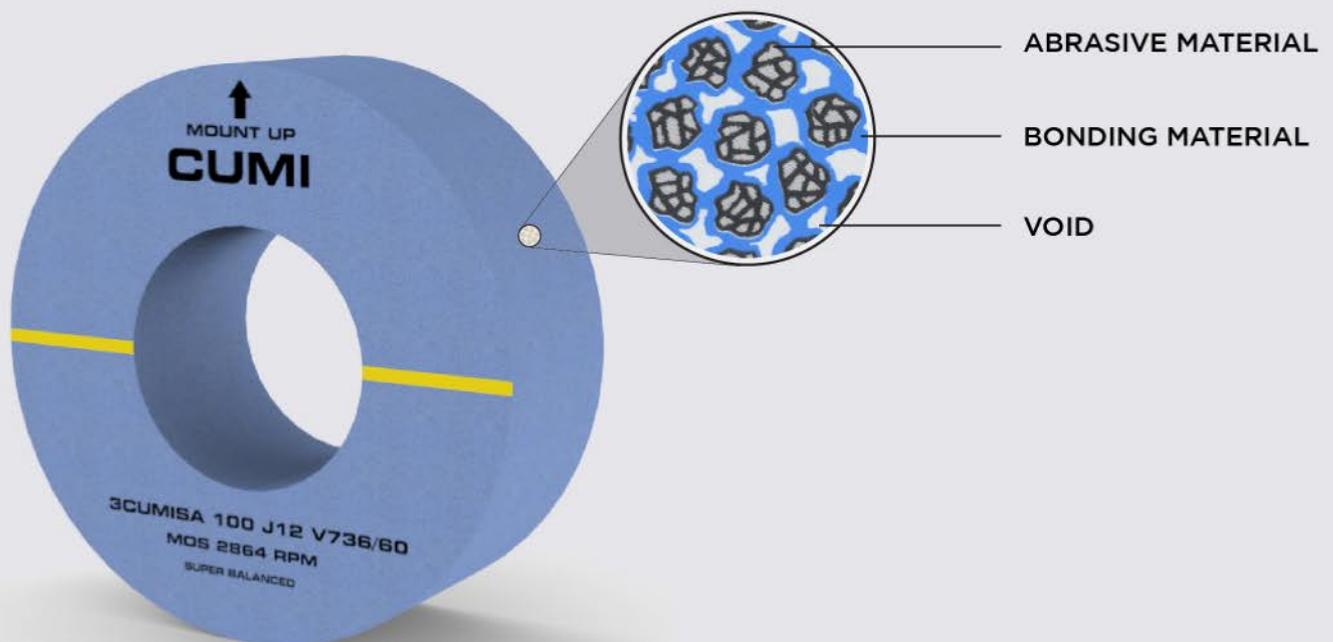
Bonded abrasives is a terminology collectively used for a range of abrasive products where abrasive grains are held together by bonding materials moulded into various shapes like grinding wheels, segments, dressing sticks, mounted points etc.,

Grinding wheel is a multi point cutting tool composed of abrasive grains held together by bonding material (bond) and separated by voids. The abrasive grains provide the cutting points, which in turn helps in cutting the material to the required dimensional accuracy or help impart a fine surface finish. The arrangement of the abrasive grains and the bond in the grinding wheels gives a specific volume of pores known as 'structure'. These pores are designed based on application needs and provide chip clearance.

The major types of grinding are

a) Precision grinding b) Non-Precision grinding or Offhand grinding

With latest developments in technology, we at CUMI pride ourselves in being one of the top manufacturers in the world for both precision and non-precision grinding applications. Our range of grinding wheels are used for various grinding applications that include Ball Grinding & Lapping, Crankshaft & Camshaft grinding, Gear grinding, Centerless grinding, Cylindrical grinding, Creep feed grinding, Thread grinding, Flute grinding, Roll grinding, Bore grinding, Track grinding, Face grinding and Surface grinding



UNDERSTANDING THE NOMENCLATURE

CUMI BONDED ABRASIVES MARKING

A	46	3	L	5	V2016	/45
↓	↓	↓	↓	↓	↓	↓
ABRASIVE TYPE	GRIT SIZE	GRIT COMBINATION	HARDNESS	STRUCTURE	BOND SYSTEM	WHEEL SPEED
Alumium Oxide A, AA, RA, RAA, SA, DA, HA, MCA, CUMISA	8, 10, 12, 14 16, 20, 24, 30 36, 46, 54, 60		D E F G H I J K L			
Silicon Carbide C, GC, CGC	80, 100, 120 150, 180, 220 240, 280, 320	1 3 5 7	M N O P Q R S T	1 2 3 4 5 6 7 8.. ...UPTO 35	V - Vitrified B - Resinoid R - Rubber	
Zircon Alumina ZA	400,600,800, 1200, 1500		U V W X Y Z			

ABRASIVE GRAINS

A	46	3	L	5	V2016	/45
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An Abrasive is a mineral crystal with hardness much higher than that of work piece. An Abrasive grain cuts into the work until it becomes dull. Then it breaks down (fractures) and exposes new cutting edges.

The principle properties to be considered when choosing an abrasive are as follows:

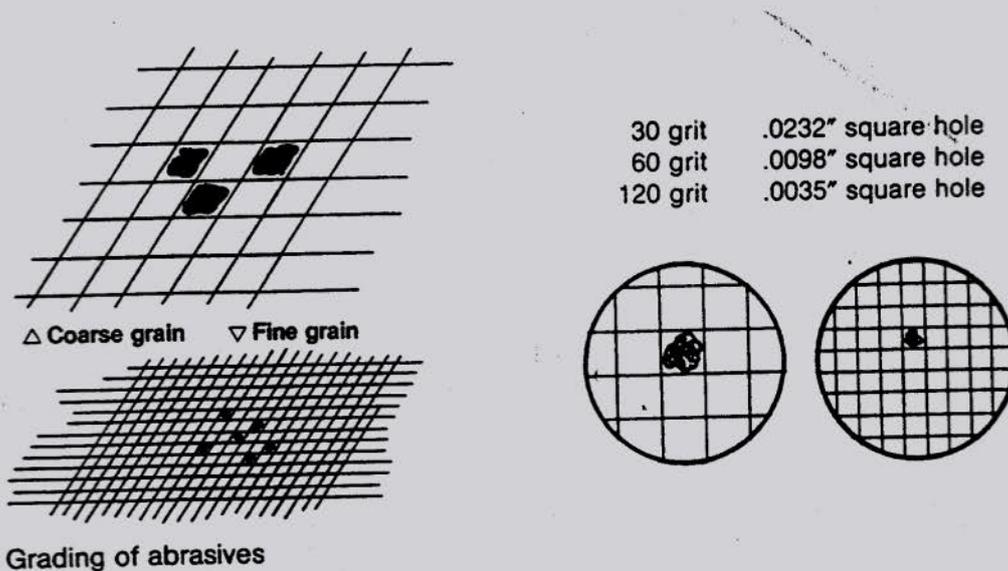
- **HARDNESS** - Resistance to Penetration
- **TOUGHNESS** - Ability to Withstand Load
- **FRIABILITY** - Ability to Fracture Under Load
- **THERMAL CONDUCTIVITY** - Ability to Conduct Heat

GRAIN TYPE	CODE	PROPERTIES & APPLICATIONS
Brown Aluminium Oxide	A	Tough grain for high tensile strength materials
Semi Friable Aluminium Oxide	SA	Free cutting grain with good form holding for complete range of steels
White Aluminium Oxide	AA	Pure Aluminium Oxide for hardened or high speed steels
Pink Aluminium Oxide	RA	Friable grain for Alloyed and Chromium Based Materials
Pink Aluminium Oxide blend	RAA	Combination of Pink and White Aluminium Oxide grains for added advantage
Ruby Pink Aluminium Oxide	24R	Tough pink grain for improved form retention
Brown and White Aluminium Oxide blend	DA	Combination of White and Brown Aluminium Oxide grains for dual advantage
Friable Aluminium Oxide	SBA	Friable grain for improved dressing
Pure Aluminium Oxide	12A	Premium grain for high performance
Premium Aluminium Oxide blend	65A	For best all round performance in cylindrical applications
Sharp Premium Aluminium Oxide blend	55A, 53A	Sharp and pure Aluminium Oxide grains for grinding hard materials
Sharp Crystal Aluminium Oxide	HA	Sharp crystalline grain combination of premium performance on all materials
Ceramic Aluminium Oxide	CUMISA	Sharp Ceramic grain for high MRR & GR requirements
Ceramic Aluminium Blend	MCA	Sharp Ceramic grain for high MRR & GR requirements
Black Silicon Carbide	C	Hard and friable grain for non ferrous material, cast iron and stainless steel
Green Silicon Carbide	GC	Hard and friable grain for grinding cemented carbide tools, hard & high chilled cast iron rolls etc
Silicon Carbide blend	CGC	Combination of C & GC
Silicon Carbide and Aluminium Oxide blend	CA	Combination of Aluminium Oxide & Silicon Carbide for Alloy steel and Stainless steel
Zirconia Alumina	AZA	Alumina Zirconia Alloy - Hard & tough grain for very high performance

GRIT SIZE

A	46	3	L	5	V2016	/45
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The size of the abrasive grain is expressed by the size of the screen opening through which the grains are shifted or sorted. For instance, a grain or grit which goes through a screen 8 mesh or openings per linear inch is called 8 grain or grit size, while a 24 grit size is roughly twenty fourth of an inch across. The higher the grit size, the finer its type.



GRIT COMBINATION

A	46	3	L	5	V2016	/45
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- Combination of different grit sizes in predetermined percentages
- Ex. A463 L5 V10 - combination of 46,54& 60 grits. Primary grit 46 will be at higher percentage.

GRADE HARDNESS

A	46	3	L	5	V2016	/45
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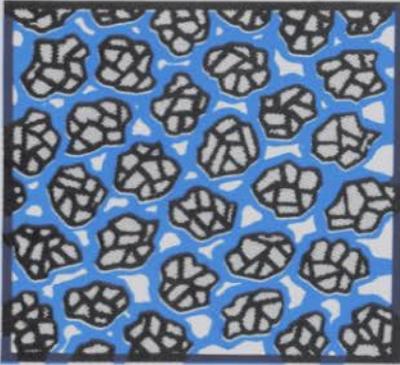
Grade hardness is the volume of the bond present in the wheel.

For a wheel of a particular bond type, the amount of bond used in the wheel mainly determines its hardness. When the amount of bond is increased, the size of the bond posts connecting each abrasive grain to its neighbours is also increased. The larger bond post is naturally stronger, thereby increasing the wheel's hardness.

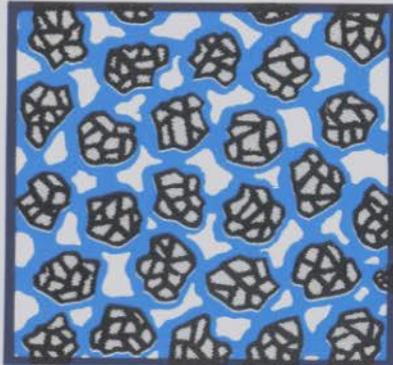
Grade hardness is therefore not a measure of the hardness of the abrasive, but of the durability of the wheel. A hard abrasive can be bonded into a soft, free cutting wheel by using less bond, while an increase in the amount of bond can make the wheel act harder. Wheel grading range from D for the softest, to Z+ for the hardest.

STRUCTURE

Structure is an indication of the abrasive grains in a wheel. This is defined by the voids or spaces between the abrasive grain and the bonding material and is called wheel porosity. A close structured wheel is one, where the volume of closely packed grains are more. These are given structured numbers of 1 and 2. Conversely. Open structure wheels are those with wider grain spacing.



Dense Spacing



Medium Spacing



Open Spacing

Spacing of abrasive grains measured in volume of abrasive particles- higher the number, more porous the wheel structure.

5= normal porosity; 3= dense; 7=porous

DESCRIPTION	OPEN STRUCTURE	CLOSED STRUCTURE
Material Removal Rate	High	Low
Grinding Ration	Low	High
Area / Arc of Contact	High	Low
Severity of Operation	High	Low
Form Holding	Poor	Good
Wheel Speed	Low	High
Type of Operation	High stock removal, Creep Feed	Normal stock removal
Thermal conductivity of work material	Low	High

BOND

A	46	3	L	5	V2016	/45
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- The bonding material which holds the Abrasive Grains together in a wheel.
- Selection of suitable Grain, Grit size, Grade Hardness & Structure can make the wheel to work but selection of a suitable Bond plays a major role in enhancing the performance of a wheel.
- CUMI has tailor made bonds depending upon the Application, Grinding Efficiency (derived from Grinding Ratio and Specific Material Removal Rate), wheel speeds etc.

Vitrified Bond (V)	Resinoid Bond (B)	Rubber Bond (R)
Glossy Bond Made of Ingredients available Naturally	Made of Phenolic Thermo Setting Resins	Made of Natural / Synthetic Rubber
Very Brittle	Very Resilient - Can withstand shock loads	Better Resiliency - Can withstand shock loads
Water, Chemical Resistance	Low Water, Chemical Resistance	Water, Chemical Resistance
Very good Form Retention	Good Form Retention	Good Form Retention
No Shelf Life	Shelf life 1-2 Years	No Shelf Life
Severity of Operation - Low	Severity of Operation - High	Severity of Operation - High
For Wheel Speeds upto 100 metres per sec	For Wheel Speeds upto 100 metres per sec	For Wheel Speeds upto 45 metres per sec
Applicable for almost any kind of application	Gives cool cutting and is more suitable for application with high area of contact, High Material Removal Rate.	For applications where very fine surface finish is required

WHEEL SPEED

A	46	3	L	5	V2016	/45
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Effect of wheel and work speed on grinding action

SPEED	INCREASED	DECREASED
Wheel speed	Harder	Softer
Work Speed	Softer	Harder
Traverse Speed	Softer	Harder
Infeed rate	Softer	Harder

WHEEL SPEED	COLOR BAND
33/35 mps	No Band
45/50 mps	Blue Band
60/63 mps	Yellow Band
80 mps	Red Band
100 mps	Green Band

WHEEL SELECTION

CUMI has one of the widest range of grinding wheels in the world. Available in standard sizes or customized to specific grinding requirements, these premier quality wheels are manufactured to suit the varied grinding needs of all user. Since there are as many types of wheels as there are grinding applications, correct wheel usage assumes very critical importance.

FACTORS AFFECTING THE SELECTION OF A GRINDING WHEEL

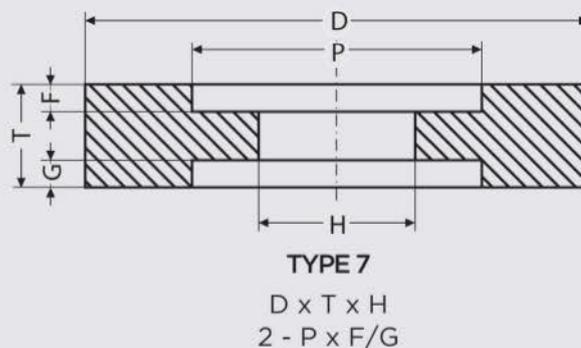
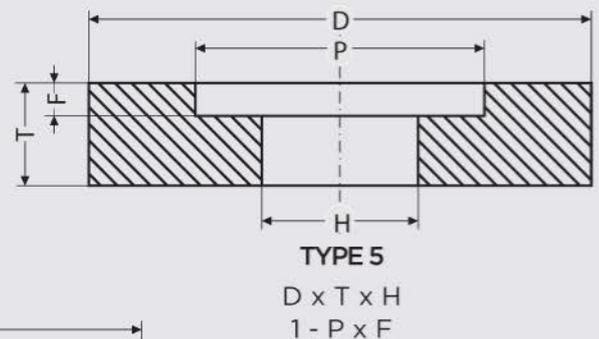
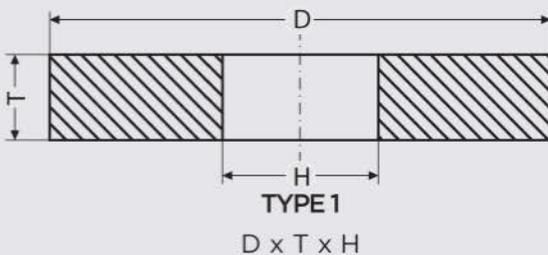
Wheel selection is dependent type of material to be ground and the type of grinding operation. The eight important factors that need to be considered in the selection of a grinding wheel

1. Material to be ground and its hardness
2. Stock removal and surface finish
3. The grinding process-whether wet or dry
4. Peripheral speed of the wheel
5. The area of grinding contact-large or small
6. The severity of grinding operation
7. Condition of grinding machine
8. Type of grinding machine

STANDARD GRINDING WHEEL SHAPES

STRAIGHT WHEELS

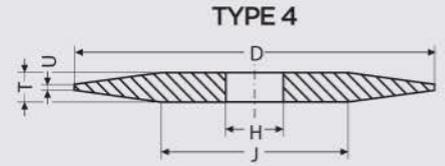
Type 1, 5 & 7 wheels are standard for internal grinding, cylindrical grinding, tool grinding, offhand grinding and snagging. The recess in Type Nos. 5 and 7 gives clearance for the mounting flanges.



STANDARD GRINDING WHEEL SHAPES

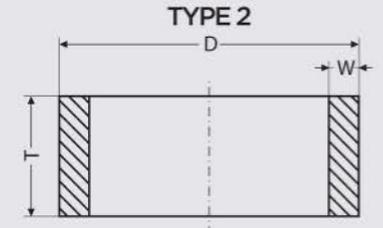
TAPERED WHEELS

Type 4 wheel, is a modification on Type 1 wheel having a taper on both sides and is used principally in snagging operations. Tapered wheels with tapered mounting flanges are a safety device to prevent pieces of the wheel from flying out should the wheel break in operation.



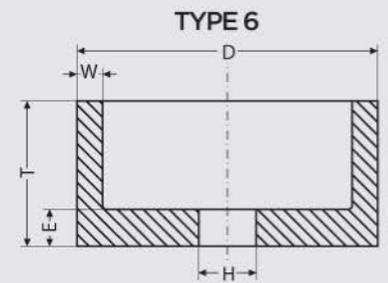
CYLINDER WHEELS

Type 2 wheel is used for surface grinding on both horizontal and vertical spindle machines with the grinding performed on the face of the wheel



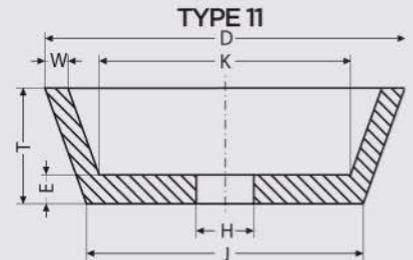
STRAIGHT CUP WHEELS

Type 6 wheel is a straight cup wheel and is used primarily for surface grinding on horizontal or vertical spindle machines. It is also useful for off-hand grinding in order to generate a flat surface. Available in either plain or bevel face.



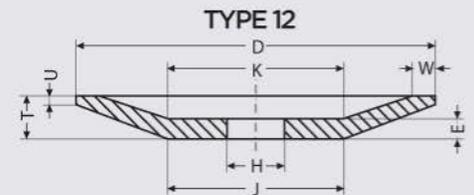
FLARING CUP WHEELS

Type 11 wheel is a flaring cup wheel used for grinding various surfaces requiring flatness. It is supplied with either a plain or bevelled face.



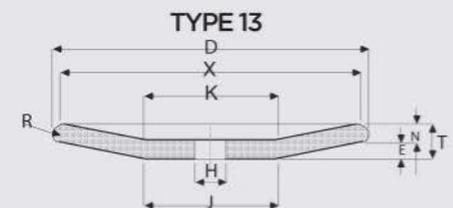
DISH WHEELS

Type 12 wheel is a dish wheel for grinding in the tool room. Its thinness permits the insertion of the grinding edge of the wheel into narrow places.



SAUCER WHEELS

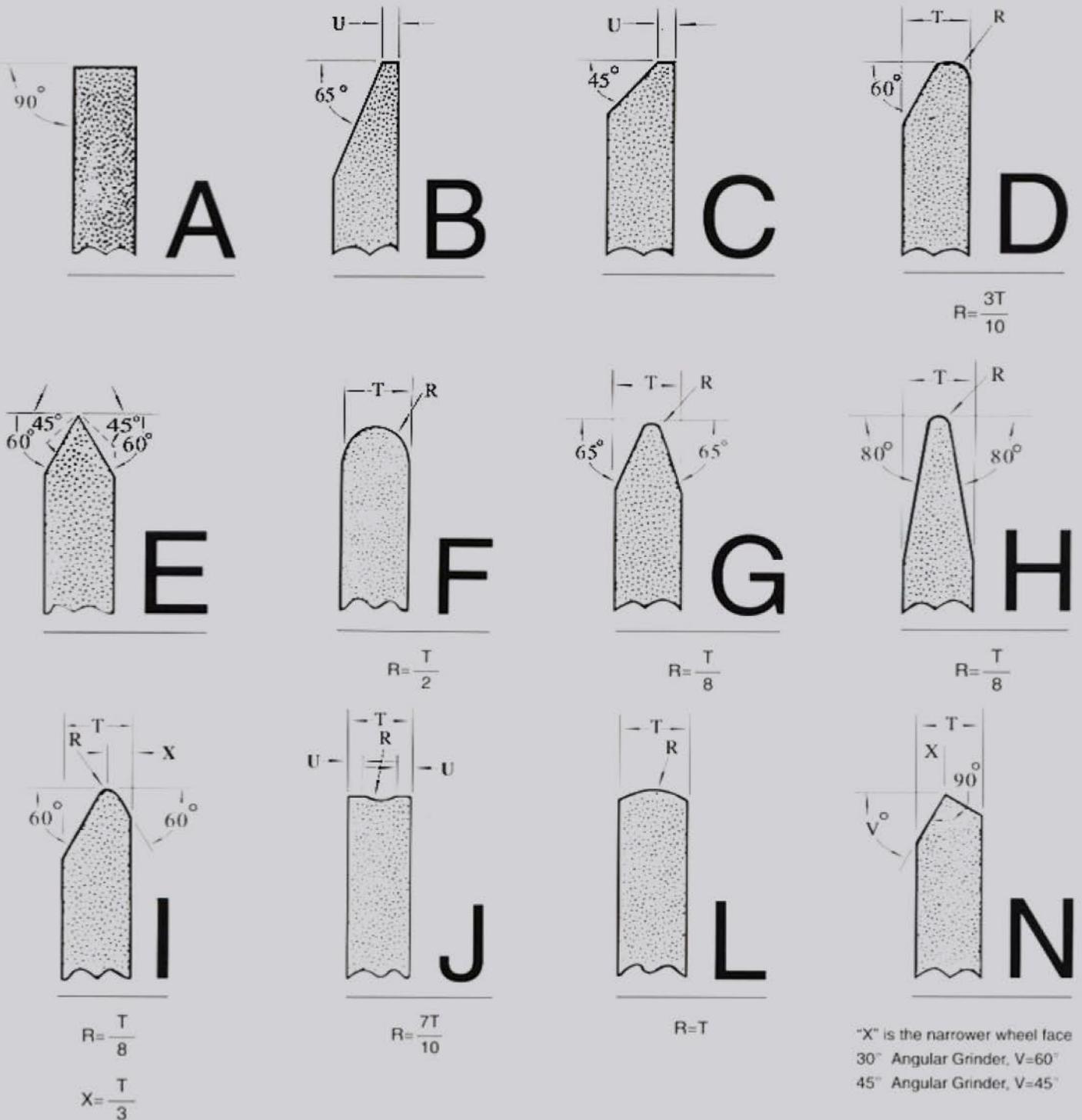
Type 13 wheel is a saucer wheel or saw gummer. Its name is derived from its use for re-sharpening saws (saw gumming).



- D: Diameter (overall)
- E: Thickness at hole or back thickness
- F: Depth of recess (see type 5 & 7)
- G: Depth of recess (see type 7)
- H: Hole
- J: Diameter of outside flat
- K: Diameter of inside flat

- M: Large Diameter of bevel
- P: Diameter of recess
- R: Radius of corner
- T: Thickness (overall)
- U: Width of edge
- W: Wall thickness of grinding face

STANDARD GRINDING WHEEL SHAPES



CUP WHEELS



CUP WHEEL GRINDING

ABOUT CUP WHEEL GRINDING

CUMI's Cup wheels are designed for grinding of stone and welded joints of metal by means of portable grinders.

Available in both straight and tapered shapes, CUMI's Cup wheels are available in a wide range of grit sizes from Grit 16 to Grit 220 to meet all grinding / finishing needs.

FEATURES:

- Threaded nut insert for easy mounting
- High strength phenolic resin for better safety
- Unique grinding aids for cooler cutting action
- Advanced manufacturing facility for better control of geometry and wheel vibration
- High performance zirconia grains for heavy duty grinding



CUP WHEEL GRINDING

ADVANTAGES OF CUMI WHEELS



1. Fast cut rate
2. Smooth running
3. Long tool life
4. No vibrations
5. Burn free & smooth finish

SHAPES



METAL

WIDTH OF PRODUCT RANGE

Abrasive Used	CUMI Code	Grit	Diameter		Thickness		Speed mps	Hardness	Structure
			mm	inch	mm	inch			
Zirconia Alumina	AZA								
Silicon Carbide & Brown Aluminium Oxide blend	CA	12 - 24	100 - 200	4 - 8	50 - 100	2 - 4	50	M - R	2 - 9
Black Silicon Carbide	C								
Brown Aluminium Oxide	A								

Variant	Type	For Better Life	For Better MRR
Portable	Carbon Steel & Low Alloy Steel	A163 R3 B1215	A163 R5 BM4
	High Alloy Steel & Stainless Steel	A163 R2 BM4	A163 Q5 BM4
	Hi-Chrome Steel	AZA163 TDR1175	AZA143 TDR1214
	Grey Cast Iron & SG Iron	C163 Q3 B1551	CA163 TDR1219

TOOL ROOM



TOOL ROOM GRINDING WHEELS

ABOUT TOOL ROOM GRINDING WHEELS

Tool room grinding wheels find vast applications in the manufacture and regrinding of cutting tools like drills, reamers, milling cutters etc.,

CUMI's tool room wheels are available in like plain wheels (type 1), cup wheels (type 6 & 11), dish wheels (type 12), saucer wheels (type 13). They are available in both dry and wet grinding applications

FEATURES:

- Right choice of abrasive grain for specific materials
- Unique bond system for cool grinding and wheel form retention



TOOL ROOM GRINDING WHEELS

ADVANTAGES OF CUMI WHEELS



1. High productivity
2. Excellent form retention
3. Dimensional accuracy
4. Surface finish
5. Burn free component

WIDTH OF PRODUCT RANGE

Abrasive Used	CUMI Code	Grit	Diameter		Thickness		Speed mps	Hardness	Structure
			mm	inch	mm	inch			
Ceramic Aluminium Oxide	CUMISA								
Sharp Crystal Aluminium Oxide	71HA								
Pink Aluminium Oxide	RA	46 - 120	80 - 250	3 1/8 - 9	3 - 25	1/8 - 1	35 & 50	I - L	5 - 7
White Aluminium Oxide	AA								
Green Silicon Carbide	GC								
Silicon Carbide blend	CGC								

SHAPES



TOOL ROOM GRINDING WHEELS

Material	Operation	Speed	Best	Better	Good
High Speed Steel / Tool Steel / High Alloy Steel	Rough	35	1CUMISA46 J6 VC500	RA46/54 J6 V206	AA46/54 K5 V8
		50	1CUMISA46 J6 VC500 /45	RA46/54 J6 V206/45	AA46/54 K5 V45
	Finish	35	1CUMISA60 J6 VC500	RA60 J6 V206	AA60 K5 V8
		50	1CUMISA60 J6 VC500 /45	RA60 J6 V206/45	AA60 K5 V45
Tungsten Carbide		35	GC60 K5 VS2110	GC60 K5 VG	CGC60 K5 VG
		50	GC60 K5 VS2110/45	GC60 K5 VG/45	CGC60 K5 VG/45
Special Tool Steels	Rough	35	71HA461 J7 VC500	55A461 J7 VC500	RAA46/54 J6 V206
		50	71HA461 J7 VC500/45	55A461 J7 VC500/45	RAA46/54 J6 V206/45
	Finish	35	71HA60 J7 VC500	55A60 J7 VC500	RAA60 J6 V206
		50	71HA60 J7 VC500/45	55A60 J7 VC500/45	RAA60 J6 V206/45

FABRICATION & WELDING INDUSTRY

COATED ABRASIVES



CARBORUNDUM UNIVERSAL LIMITED

CUMI'S COATED ABRASIVES

CUMI's wide range of coated abrasives comprises of abrasive sheets, rolls, belts, fiber discs, flap discs, PSA, hook 'n loop, quick change discs, double sided discs, cartridge rolls, shaft mounted flap wheels & flap wheels.



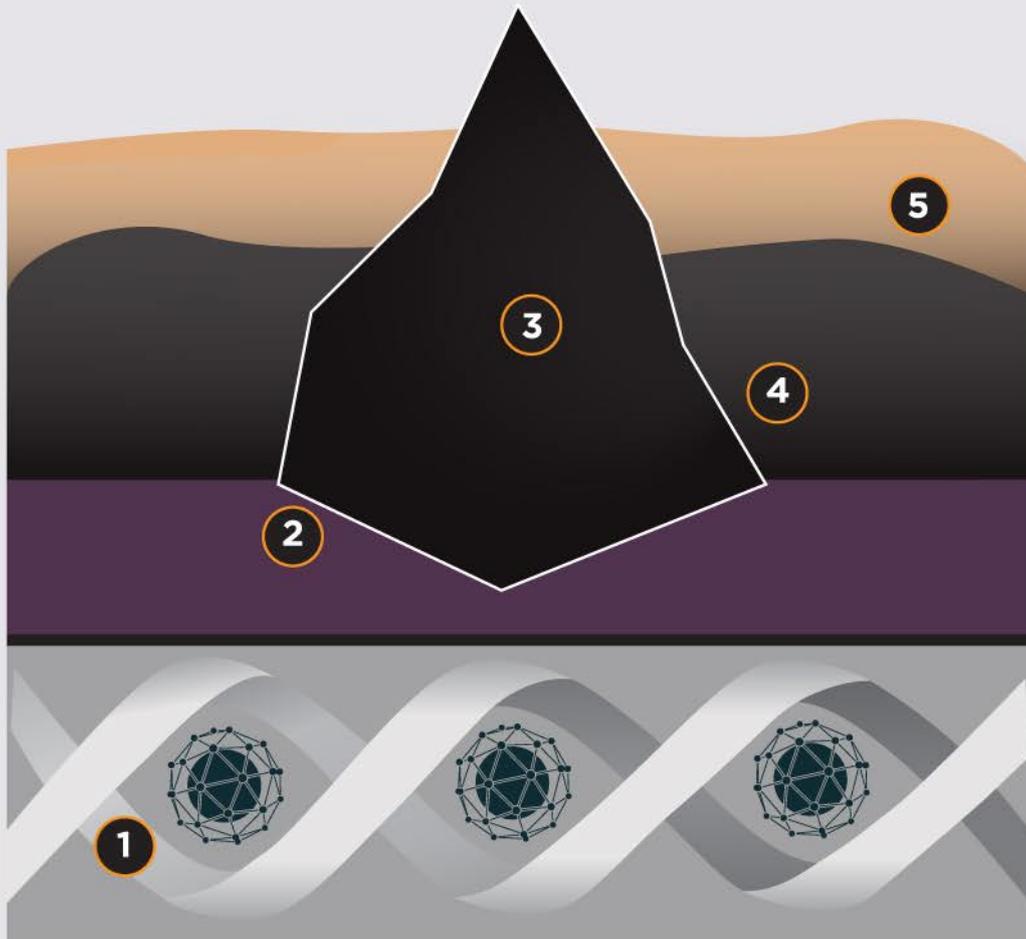
With state-of-the-art Peter Schwabe Maker, CUMI produces the widest range of high quality coated abrasive products for various applications meeting stringent customer demands.



COATED ABRASIVES

About Coated Abrasive

A coated abrasive is composed of three primary raw materials - abrasive grains, backing and bonding agent. The abrasive grains are primarily attached to a backing by means of a bonding agent. Coated abrasives are primarily used for heavy stock removal, grinding, de-burring, blending, cleaning, polishing & finishing operations.



STRUCTURE

- 1 BACKING
- 2 MAKER COAT
- 3 ABRASIVE GRAIN
- 4 SIZER COAT
- 5 TOP COAT *OPTIONAL

STRUCTURE OF COATED ABRASIVES

1. BACKING

Backing materials form the base of coated abrasives and anchor the abrasive grains with bonding agent. The various backings used in the manufacture of coated abrasives are as follows:

Paper • Cloth • Vulcanized Fiber • Polyester film

1.1 PAPER:

Paper backings vary from A-weight (lightest, most flexible) to F-weight (heaviest, least flexible). Some specialty products include latex treated paper for flexibility and tear resistance. Paper backings are available in the forms of Abrasive sheets, rolls, belts, PSA, hook'n loop, double side discs and plain discs.

PAPER

MOST FLEXIBLE			LEAST FLEXIBLE		
A - weight	B - weight	C - weight	D - weight	E - weight	F - weight
(95 g/m ²)	(105 g/m ²)	(120 g/m ²)	(150 g/m ²)	(220 g/m ²)	(270 g/m ²)

1.2 CLOTH:

The cloth backings undergo a series of treatments to impart flexibility, stiffness and other characteristics depending on the application. CUMI's range of cloth backings are carefully chosen right from the weaving to processing, making them highly suitable for every application. Cloth backings are primarily classified by weight & yarn constructions and are available in Cotton, Polycotton and Polyester.

CLOTH

MOST FLEXIBLE		LEAST FLEXIBLE	
J-WEIGHT	X-WEIGHT	Y-WEIGHT	YY-WEIGHT

1.3 FIBER:

Vulcanized fiber backings are primarily used for the manufacture of jumbo based fiber discs, IDC based fiber discs and quick change discs. Fiber backings are available in three variants which are chosen depending on the end application.

	RECOMMENDED FOR
0.95 mm	applications demanding heavy stock removal
0.85 mm	applications demanding medium - high pressure grinding (Exclusive for IDC)
0.80 mm	applications demanding medium - high pressure grinding
0.60 mm	finishing applications

Vulcanized fiber (cotton fibers which are chemically treated and then pressed under temperature and

STRUCTURE OF COATED ABRASIVES

2. MAKER COAT

The maker coat plays a crucial role of anchoring the abrasive grain to the backing firmly. The primarily used bonding agents are glue, semi-synthetic resin & synthetic resin which are chosen depending on the end application. Synthetic resins are used for heavy grinding operations & glue bond is preferred for hand sanding operations.

3.ABRASIVE GRAINS

Abrasive grains perform the material removal action supported by the backing and bonding agent.

Abrasive grains used in CUMI's coated abrasives are classified into 2 major variants:

- a) Natural abrasive grains
- b) Synthetic abrasive grains

NATURAL ABRASIVE GRAINS

- | | |
|------------|--|
| i. Emery | Blocky shaped grain for hand sanding metal applications |
| ii. Garnet | Sharp edged soft grain for wood working applications |
| iii. Flint | Friable grain suitable for paint removal and hand sanding applications |

SYNTHETIC ABRASIVE GRAINS

- | | |
|------------------------------|---|
| i. Eco Aluminium Oxide | Friable Aluminium Oxide grain ideal for light operations |
| ii. Brown Aluminium Oxide | Tough Aluminium Oxide grain suitable for both hand sanding and machine applications |
| iii. White Aluminium Oxide | Friable Aluminium Oxide grain for fast cutting action |
| iv. Premium Aluminium Oxide | Special treated Aluminium Oxide grain for superior performance |
| v. Silicon Carbide | Hard and friable grain ideal for non-ferrous materials |
| vi. Zirconia alumina | Tough and hard premium abrasive grain for heavy duty grinding applications |
| vii. Ceramic Aluminium Oxide | Micro-crystalline abrasive grain known for its high performance & unique fracture characteristics upon pressure |

The important characteristics to be considered when choosing an abrasive grain are:

- Hardness
- Toughness
- Nature of fracture
- Grain shape and size

STRUCTURE OF COATED ABRASIVES

4. SIZER COAT

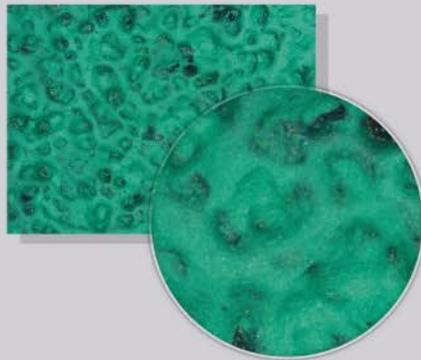
In this process, the bonding agent polymerizes along with the maker coat thereby reinforcing the abrasive grains for grinding operation. Special products for wood application incorporate anti-static material to prevent clogging

5. TOP COAT *OPTIONAL

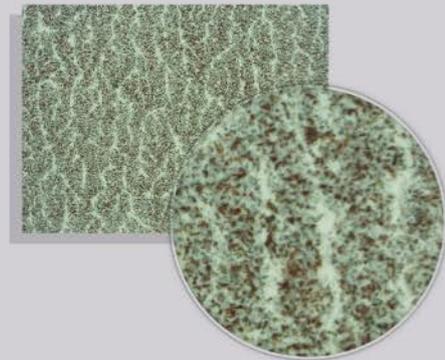
This coating is applied over the sizer coat to impart special features to coated abrasives. The two major top coat variants are

- a. Anti-clogging coat : This comprises of a stearate coating which acts as a lubricant that prevents clogging by reducing friction thereby increasing life of the product
- b. Super-size coat : This coating comprises of a 'Fluorine' based grinding aid which prevents increase in temperature in Stainless steel & high alloy steels, rendering a cooler cutting action, increasing material removal rate and product life.

SUPER SIZE COAT



ANTI CLOGGING COAT



TYPES OF COATING

DEFINITION	DESCRIPTION	CODE
Close Coat	The backing surface is coated with 90-95% grit volume. It has got the longest life and best finish.	●
Semi-Open Coat	The backing surface is coated 50- 75% grit volume. It has Anti-loading characteristics	◐
Open Coat	The backing surface is coated with approx. 50% grit volume	○

UNDERSTANDING THE PICTOGRAMS

CUMI's versatile range of products come in various forms. The pictograms below are indicative of the same.

FORMS



SHEETS



ROLLS



CARTRIDGE ROLLS



NARROW BELT



HARD WOOD
FLOOR BELT



FIBER DISC
ROUND HOLE



FIBER DISC
SLIT HOLE



FIBER DISC
SLOT HOLE



FLAP DISC



SHAFT MOUNTED
FLAP WHEEL



HOOK 'N LOOP



PSA



QUICK CHANGE DISC

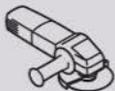


DOUBLE SIDED DISC

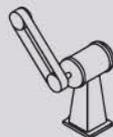


FLAP WHEEL

MACHINES



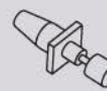
ANGLE GRINDER



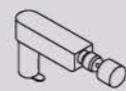
BACK STAND
GRINDER



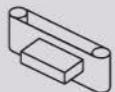
CENTRELESS
FINISHING MACHINE



DIE GRINDER



DRILLING MACHINE



EDGE SANDING
MACHINES



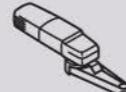
FLEXIBLE SHAFT
GRINDER



HAND BLOCK



HAND SANDING



HAND TOOL BELT
GRINDER



ORBITAL SANDER



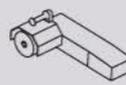
PARQUET SANDER



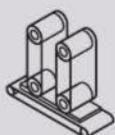
RANDOM ORBITAL
SANDER



RIGHT ANGLE DIE
GRINDER



SATIN FINISHING
MACHINE



THROUGH-FEED
GRINDING



WIDE BELT
FINISHING MACHINE



FLOOR STANDING
GRINDER

SPECIALITY



ANTI-SLIP

Special anti-slip coating on the backing that minimizes slipping and aids fast & comfortable sanding.



WET / DRY

The Abrasive products that possess this specialty can be used in both wet and dry conditions.



ANTI-CLOG

Products with this pictogram consist of a stearate coating which acts as a lubricant minimizing the clogging effect during sanding that reduces friction thereby prolonging life.



LATEX

Products with this symbol consist of latex impregnated backing which offers greater amount of flexibility & tear resistance. Ideal for contour sanding.



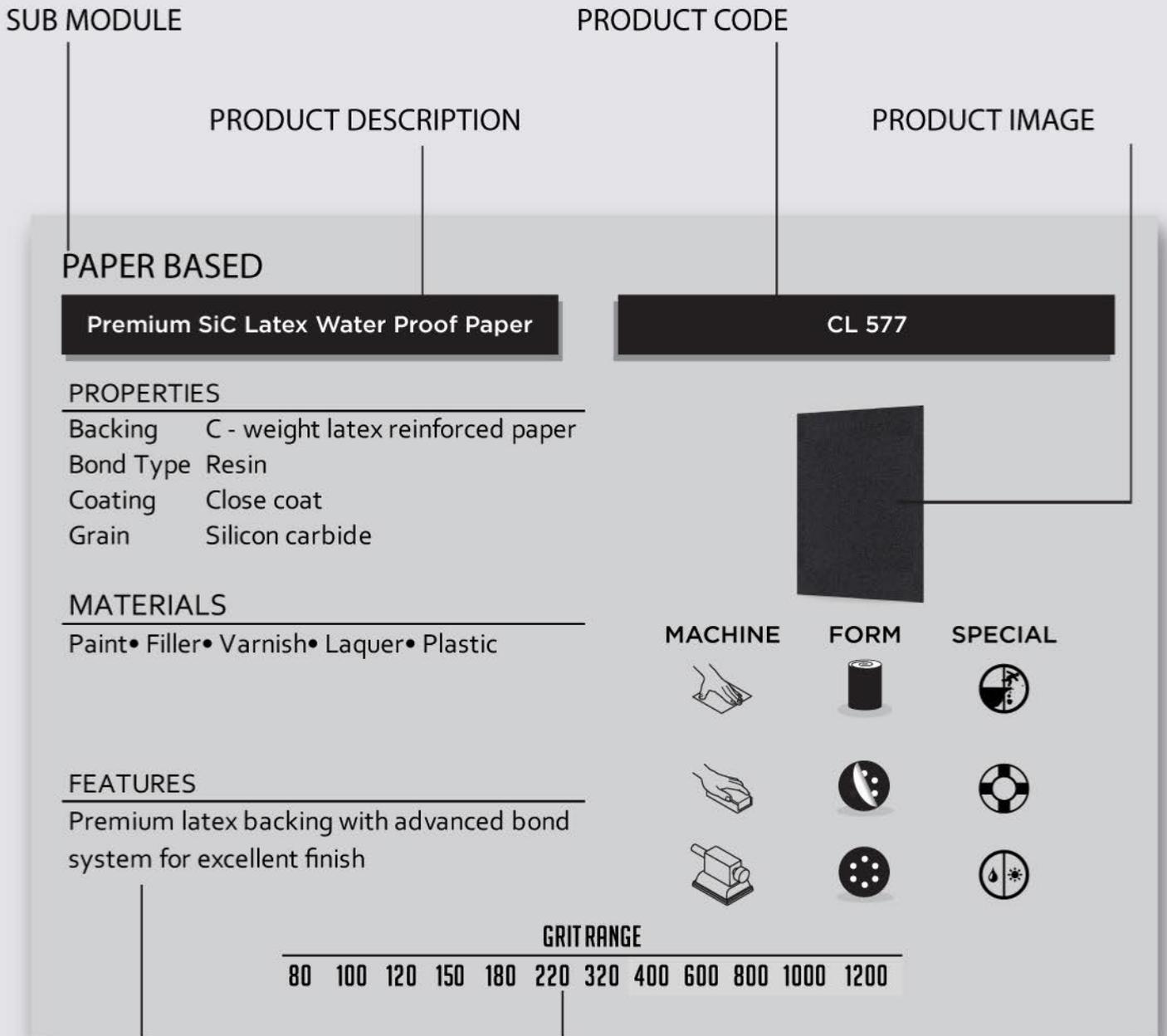
SUPER SIZE

An additional coating of active fillers resists increase in temperature thereby providing a cooler cutting action. Highly recommended for Stainless Steel.

PRODUCT CODE EXPLANATION

Y	S	5	8	8
Backing	Internal Process Code	Bond	Abrasive	Internal Process Number
Paper A - 95 gsm B - 105 gsm C - 110 gsm D - 150 gsm E - 220 gsm F - 270 gsm G - 350 gsm Fiber F - 0.6mm Fiber V - 0.8/0.85/ 0.95mm Fiber T - Natural Fiber Cloth P - Plain weave Cotton / Polycotton J - Cotton / Polycotton X - Cotton / Polycotton Y - Polycotton / Polyester Film L - Film		1 - Glue / Glue 2 - Resin / Glue 3 - Alkyd /Alkyd 4 - Resin / Alkyd 5 - Resin / Resin 6 - UF / UF 7 - UF / Glue	0 - Eco Aluminium Oxide 1 - Flint 2 - Emery 3 - Garnet 4 - Aluminium Oxide 5 - White Aluminium Oxide 6 - Premium Aluminium Oxide 7 - Silicon Carbide 8 - Zirconia Alumina 9 - Ceramic Aluminium Oxide	

HOW TO READ THE BROCHURE



PRODUCT ATTRIBUTES

GRIT RANGE

OTHER FORMS

SPECIAL FEATURES

MODULE

CATEGORY

SHEETS



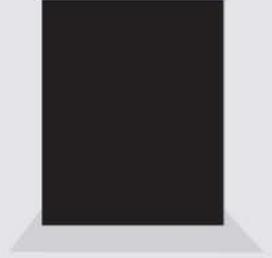
COATED ABRASIVES

SHEETS



SHEETS

CUMI offers wide range of products for hand sanding and for hand held power tools. Products are specially designed for particular work piece and mode of operation and are available for wet and dry sanding application. The products are supplied in cloth or paper backing for recommended application. CUMI also offers sheets and strips in wide range of designs with hole patterns for dust extraction.



ADVANTAGES OF CUMI SHEETS

- Fast cut rate
- Superior life
- Smooth finish
- Latex option for increased flexibility
- Stearate option for reduced loading



AVAILABLE VARIANTS

	PAPER			CLOTH		FIBRE
CL 577	CP 547	DV/CV 371	JC 565	PG 121	LF 567	
CL 575	DR 551	CR 131	XS 542			
CL 565	CR 663	CR 121	JG 502			
CL 567	CR 661	CR 111	PS 502			

CUMI White Paper

DR 551

PROPERTIES

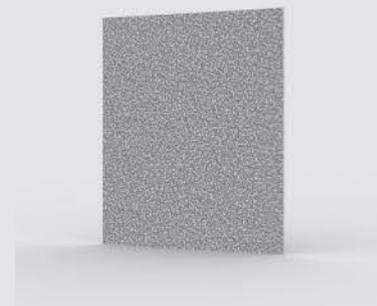
Backing D - weight paper
Bond Type Resin
Coating Semi-open coat
Grain White Aluminium Oxide

MATERIALS

Steel • Wood • Wall • Paint • Filler

FEATURES

Friable grains for faster cutting action



MACHINE

FORM

SPECIAL



GRIT RANGE

40 50 60 80 100 120 150 180 220

PAPER BASED

SiC Water Proof Paper

DV / CV 371

PROPERTIES

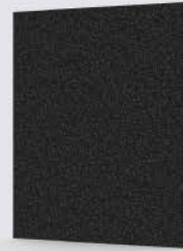
Backing D / C - Wet Strength weight paper
Bond Type Resin
Coating Close coat
Grain Silicon Carbide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal •
Wood • Wall • Paint • Varnish • Laquer • Filler •
Plastic

FEATURES

Special bond provides combination of
flexibility & strength



MACHINE

FORM

SPECIAL



GRIT RANGE

60 80 100 120 150 180 220 240 280 320 400 500 600 800 1000 1200

PAPER BASED

Emery Paper

CR 121

PROPERTIES

Backing C - weight paper
Bond Type Glue
Coating Close coat
Grain Emery

MATERIALS

Steel • Non Ferrous Metal

FEATURES

Modified bond adheres to contours



MACHINE



GRIT RANGE

50 60 80 100

CLOTH BASED

AIO Flexible Cloth Sheet

PROPERTIES

Backing J - weight cotton
Bond Type Resin
Coating Semi-open coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Wood • Paint •
Varnish • Lacquer • Plastic

FEATURES

Special flexible cloth for contour sanding

JC 565



MACHINE

FORM



GRIT RANGE

60 80 100 120 150 180 220 240 280 320 400

X-weight AIO Cloth Sheet

PROPERTIES

Backing X - weight cotton
Bond Type Resin
Coating Semi-open coat
Grain Aluminium Oxide

MATERIALS

Steel • Wood • Paint

FEATURES

Modified bond system for extra durability

XS 542



MACHINE

FORM



GRIT RANGE

50 60 80 100 120

CLOTH BASED

J-weight AIO Cloth Sheet

PROPERTIES

Backing J - weight cotton
Bond Type Resin
Coating Semi-open coat
Grain Eco Aluminium Oxide

MATERIALS

Steel • Wood • Paint

FEATURES

Economical product for all purpose general sanding

JG 502



MACHINE

FORM



GRIT RANGE

50 60 80 100 120

Plain Weave AIO Cloth Sheet

PROPERTIES

Backing Plain weave poly cotton
Bond Type Resin
Coating Semi-open coat
Grain Eco Aluminium Oxide

MATERIALS

Steel • Wood • Paint

FEATURES

Plain weave poly cotton cloth for extra flexibility and durability.

PS 502



MACHINE

FORM



GRIT RANGE

40 60 80 100 120 150 180 220 240 320 400

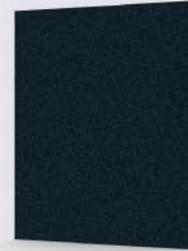
CLOTH BASED

Emery Cloth Sheet

PG 121

PROPERTIES

Backing Plain weave cotton
Bond Type Glue
Coating Close coat
Grain Emery



MATERIALS

Steel • Non Ferrous Metal

MACHINE



FEATURES

Light weight backing with soft bond for good finish

GRIT RANGE

24 36 60 80 100 120 150 180 220



FILM BASED

AIO Film Sheet

LF 567

PROPERTIES

Backing Film backing
Bond Type Resin
Coating Close coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal •
Paint • Filler

FEATURES

Film backing facilitates excellent finish



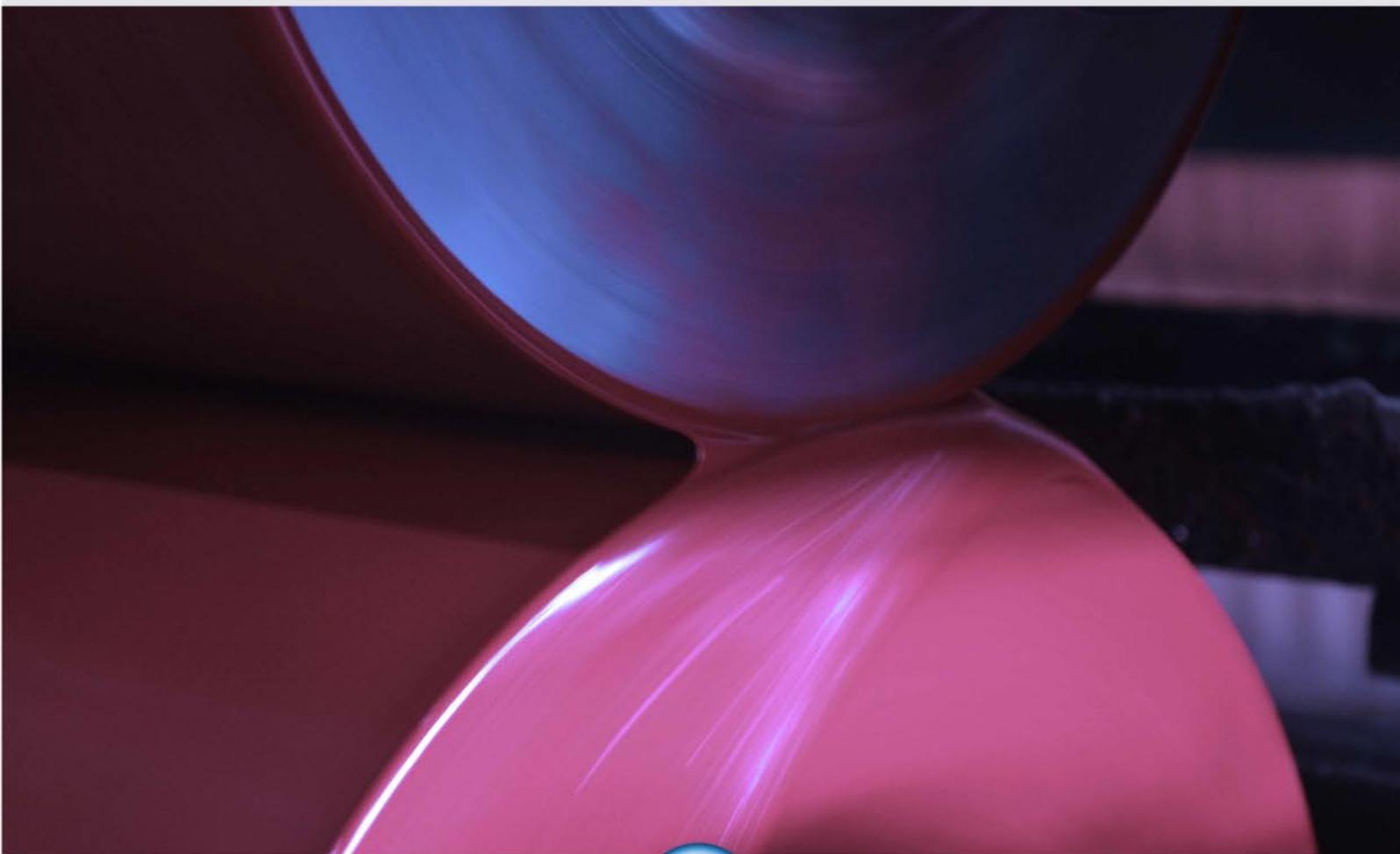
MACHINE

FORM



GRIT RANGE

60 80 100 120 150 180 220 240 280 320 400 600 800 1000 1200 1500 2000





BELTS



BELTS

CUMI offers belts suitable for all sanding and grinding operations in wide range of sizes on cloth and paper backings. Special designs for customized applications i.e. metal working, wood working are available. Belts are made on backings with high tensile strength and optimum stretch resistance. CUMI supplies long, narrow and wide belts with various types of joints. The type of joint required depends on the work piece involved and machine used.



ADVANTAGES OF CUMI BELTS

- Wide range of backing from highly flexible to most sturdy
- Premium grains for enhanced performance
- Closely graded grains
- Modified bonds for improved grain retention
- Optional supersize coat for cooler cutting action



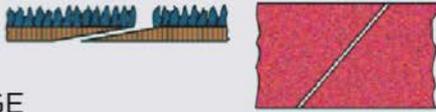
AVAILABLE VARIANTS

PAPER	CLOTH		
	WOOD	METAL	
FP 567	YS 595	YS 592	JF 567
	XS 581	YY585	YW 571
	YS 575	YY 583	
	YS 549	YS 562	

JOINTS

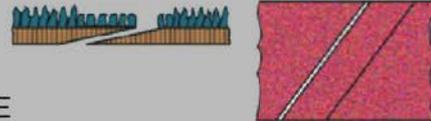
LAP JOINTS

GLUED OVERLAPPED



USAGE
Narrow & Wide belts

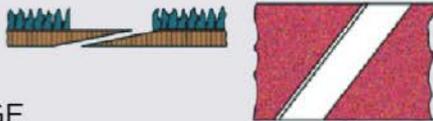
GLUED OVERLAPPED, GRAIN TIPS REMOVED



USAGE
Flexible belt for wood sanding

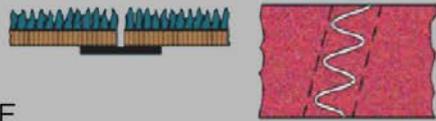
LAP JOINT - TOP LAP FULLY SKIVED

DIAGONAL CUT, GLUED OVERLAPPED, GRAIN AREA REMOVED COMPLETELY



USAGE
For all short belts

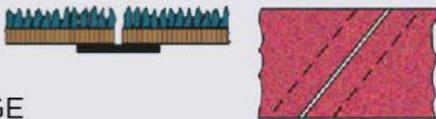
ZIGZAG JOINT GLUED BENEATH



USAGE
Cloth belts for the glass | wood industry

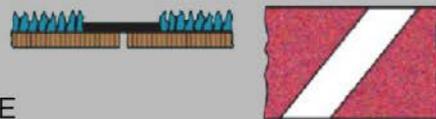
BUTT JOINT (FIBRE REINFORCED TAPE)

BUTT JOINT, GLUED BENEATH



USAGE
Flexible belt for the fittings industry

BUTT JOINT, DIAGONAL CUT, GRAIN AREA REMOVED COMPLETELY, TAPE ON THE GRAIN SIDE



USAGE
Only for special applications

CLOTH BASED- FOR WOOD

Ceramic Cloth Belt

PROPERTIES

Backing Y - weight heavy polyester
Bond Type Resin
Coating Semi-open coat
Grain Ceramic Aluminium Oxide

MATERIALS

Hardwood Floor • Wood • MDF • Particle Board

FEATURES

For a high rate of cut without burn marks

YS 595



MACHINE SPECIAL



GRIT RANGE

36 60 80 120

Zirconia Cloth Belt

PROPERTIES

Backing X - weight poly cotton
Bond Type Resin
Coating Semi-open coat
Grain Zirconia Alumina

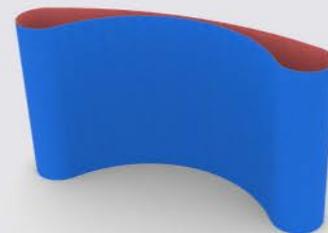
MATERIALS

Non Ferrous Metal • Hardwood Floor • Wood

FEATURES

Durable backing with self sharpening grains provides outstanding performance

XS 581



MACHINE FORM



GRIT RANGE

36 60 80 120

CLOTH BASED- FOR METAL

Ceramic Cloth Belt

PROPERTIES

Backing Y - weight heavy polyester
 Bond Type Resin
 Coating Close coat
 Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless Steel • High Carbon Steel • Titanium

FEATURES

Micro crystalline ceramic grains enhances cut rate & durability

GRIT RANGE

36 60 80 120

YS 592



MACHINE SPECIAL



Zirconia Cloth Belt with Top Coat

PROPERTIES

Backing Y - weight heavy polyester
 Bond Type Resin
 Coating Close coat
 Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • High Carbon Steel • Titanium

FEATURES

Tough bond with supersize coat ensures cooler cutting action

GRIT RANGE

36 60 80 120

YY 585



MACHINE FORM SPECIAL



CLOTH BASED- FOR METAL

Zirconia Cloth Belt

PROPERTIES

Backing Y - weight heavy polyester
 Bond Type Resin
 Coating Close coat
 Grain Zirconia Alumina

MATERIALS

Steel • Non Ferrous Metal • High Carbon Steel

FEATURES

Tough bond with Zirconia Alumina grains for an aggressive cut

GRIT RANGE

36 60 80 120

YY 583



MACHINE



FORM



SPECIAL



AIO Cloth Belt

PROPERTIES

Backing Y - weight polycotton
 Bond Type Resin
 Coating Close coat
 Grain Premium Aluminium Oxide

MATERIALS

Steel • Non Ferrous Metal • High Carbon Steel • Titanium

FEATURES

Premium grains and resin combination for high material removal rate

GRIT RANGE

36 60 80 120

YS 562



MACHINE



FORM



CLOTH BASED- FOR METAL

AIO Flexible Cloth Belt

PROPERTIES

Backing J - weight polycotton
Bond Type Resin
Coating Semi-open coat
Grain Premium Aluminium Oxide

MATERIALS

Non Ferrous Metal

FEATURES

Flexible backing assists in contour sanding

JF 567



MACHINE



GRITRANGE

60 80 100 120 150 180 220 280 320 400

SiC Cloth Belt

PROPERTIES

Backing Y - weight polyester
Bond Type Resin
Coating Close coat
Grain Silicon Carbide

MATERIALS

Steel • Stainless Steel • Glass

FEATURES

Close Graded grains for excellent cut & finish

YW 571



MACHINE

SPECIAL



GRITRANGE

60 80 100 120 150 180 220 320 400

FIBER DISCS



FIBER DISCS

CUMI's fiber discs are designed for applications ranging from heavy stock removal to finishing operations. Made from a vulcanized fiber backing and high performance bond system, these fiber discs are available in aluminium oxide, Silicon Carbide, Zirconia Alumina and Ceramic Aluminium Oxide variants.

The high quality fiber, available in different thickness has high mechanical strength and stable at high grinding temperatures. These discs are designed for high speed operations with hand held grinding machines - pneumatic, electrical.

Cumi's range of fiber discs are available in 3 different variants:

- a. IDC fiber discs
- b. Jumbo fiber discs
- c. Trimmable discs

ADVANTAGES OF CUMI FIBER DISCS

- Special treated grains for maximum cut rate
- Imported vulcanized fiber for high strength
- High performance bond for longer life
- Active fillers for increased performance



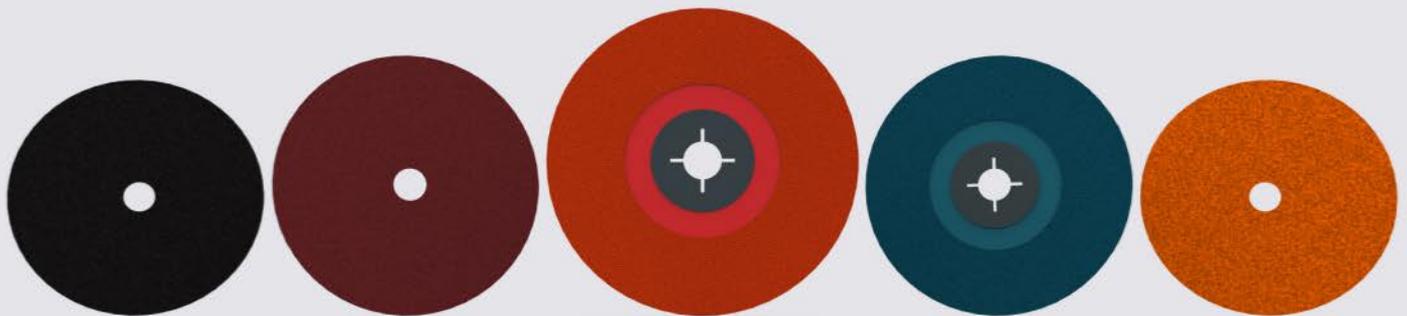
ROUND HOLE



SLIT HOLE



SLOT HOLE



AVAILABLE VARIANTS

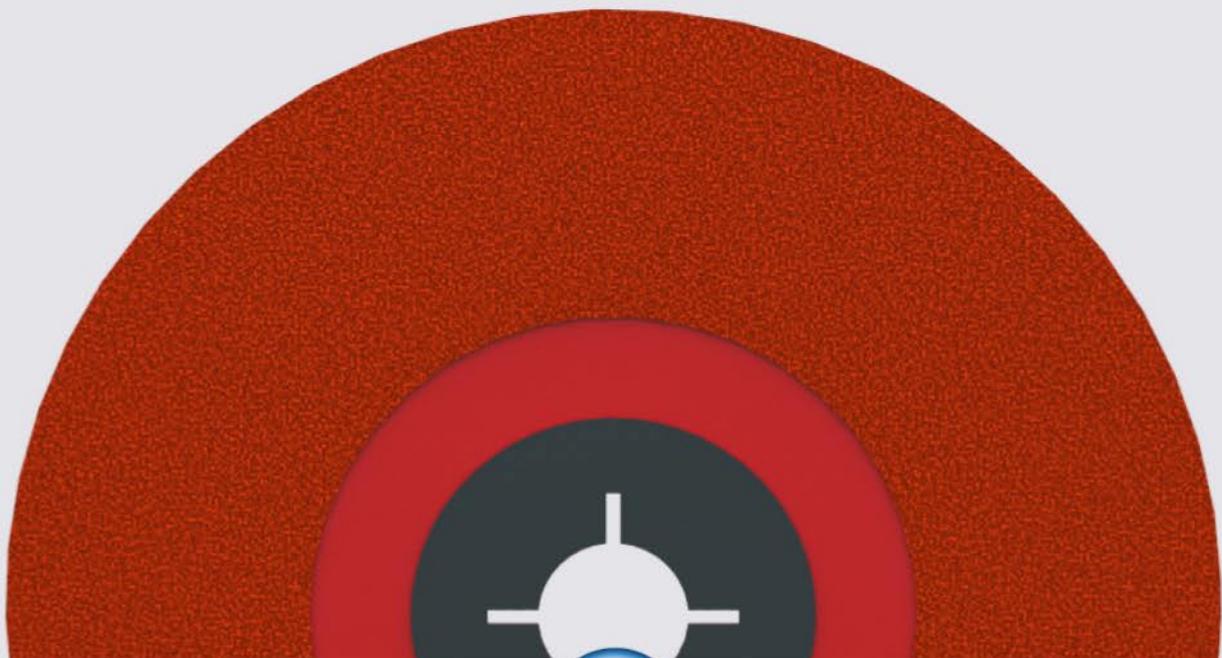
IDC FIBER DISCS		TRIMMABLE DISCS		JUMBO FIBER DISCS	
VR 599	VR 569	TD 592	TD 549	VR 581	VR/FR 561
VR 589		TD 585		VR 571	VR/FR 543

IDC FIBER DISCS

CUMI is one of the few abrasive players to manufacture IDC range of fiber discs. IDC stands for Individual Disc Coating. As the name implies, these discs are individually coated with a superior bond and grain combination. Typically, in a jumbo fiber discs, the jumbo is punched to the required shape. Due to this action, the outer edges of the discs tend to get weaker resulting in premature grain shedding. By coating individually, grain adhesion on the periphery of the disc drastically reduces grain shedding resulting in high performance.

The advantages of IDC over conventional fiber discs are:

- a) Strong & uniform grain coating at the edges
- b) Reduced grain shedding
- c) Lower edge wear
- d) Improved grain retention for longer life



IDC FIBER DISCS

CUMI Krypton

PROPERTIES

Backing 0.8 / 0.85mm vulcanised fiber
Bond Type Resin
Coating Close coat
Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal •
Chrome Steel • Castings

FEATURES

Ceramic grains with super-size coat for best in class performance

GRIT RANGE

24 36 60 80 100 120

VR 599



MACHINE



CUMI Zing

PROPERTIES

Backing 0.8 / 0.85mm vulcanised fiber
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina

MATERIALS

Steel • Stainless steel • Chrome steel •
Castings • Glass fiber

FEATURES

Premium grains for aggressive edge grinding

GRIT RANGE

24 36 60 80 100 120

VR 589



MACHINE



IDC FIBER DISCS

Alpha

VR 569

PROPERTIES

Backing 0.8 / 0.85mm vulcanised fiber
Bond Type Resin
Coating Close coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal •
Glass Fiber • Wood

FEATURES

Special bond for metal grinding application

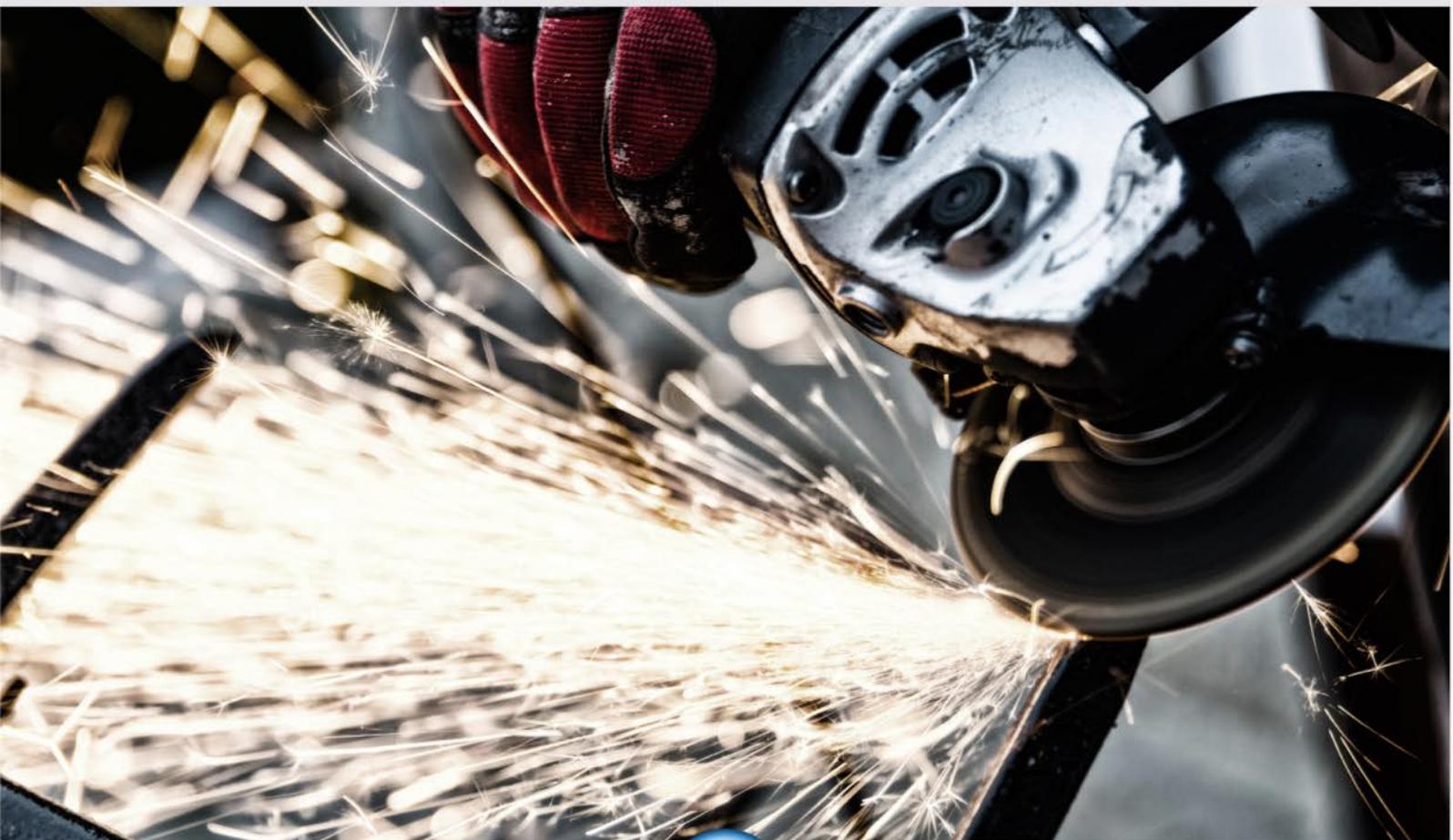


MACHINE



GRITRANGE

24 36 50 60 80 100 120



FIBER DISCS

CUMI

COATED ABRASIVES

IDC FIBER DISCS



DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
100 X 16	4 X 5/8		15300	100
HOLE PATTERN	GRIT	CUMI CODE		
		CUMI KRYPTON	CUMI ZING	ALPHA IDC
	24	IDVR599024100	IDVR589024100	IDVR569024100
	36	IDVR599036100	IDVR589036100	IDVR569036100
	50	IDVR599050100	IDVR589050100	IDVR569050100
	60	IDVR599060100	IDVR589060100	IDVR569060100
	80	IDVR599080100	IDVR589080100	IDVR569080100
	100	IDVR599100100	IDVR589100100	IDVR569100100
	120	IDVR599120100	IDVR589120100	IDVR569120100

DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
115 X 22	4.5 x 7/8		13300	100
HOLE PATTERN	GRIT	CUMI CODE		
		CUMI KRYPTON	CUMI ZING	ALPHA IDC
	24	IDVR599024115	IDVR589024115	IDVR569024115
	36	IDVR599036115	IDVR589036115	IDVR569036115
	50	IDVR599050115	IDVR589050115	IDVR569050115
	60	IDVR599060115	IDVR589060115	IDVR569060115
	80	IDVR599080115	IDVR589080115	IDVR569080115
	100	IDVR599100115	IDVR589100115	IDVR569100115
	120	IDVR599120115	IDVR589120115	IDVR569120115

* Other Hole Patterns available on Request

IDC FIBER DISCS



DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
125 X 22	5 x 7/8		12200	100
HOLE PATTERN	GRIT	CUMI CODE		
		CUMI KRYPTON	CUMI ZING	ALPHA IDC
	24	IDVR599024125	IDVR589024125	IDVR569024125
	36	IDVR599036125	IDVR589036125	IDVR569036125
	50	IDVR599050125	IDVR589050125	IDVR569050125
	60	IDVR599060125	IDVR589060125	IDVR569060125
	80	IDVR599080125	IDVR589080125	IDVR569080125
	100	IDVR599100125	IDVR589100125	IDVR569100125
	120	IDVR599120125	IDVR589120125	IDVR569120125

DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
180 X 22	7 x 7/8		8600	100
HOLE PATTERN	GRIT	CUMI CODE		
		CUMI KRYPTON	CUMI ZING	ALPHA IDC
	24	IDVR599024180	IDVR589024180	IDVR569024180
	36	IDVR599036180	IDVR589036180	IDVR569036180
	50	IDVR599050180	IDVR589050180	IDVR569050180
	60	IDVR599060180	IDVR589060180	IDVR569060180
	80	IDVR599080180	IDVR589080180	IDVR569080180
	100	IDVR599100180	IDVR589100180	IDVR569100180
	120	IDVR599120180	IDVR589120180	IDVR569120180

* Other Hole Patterns available on Request

JUMBO FIBER DISCS

Blue Spark Zirconia

PROPERTIES

Backing 0.8mm vulcanised fiber
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina

MATERIALS

Steel • Stainless steel • Chrome steel •
Castings • Glass fiber

FEATURES

Premium grains for aggressive cut

VR 581



MACHINE

FORM



GRIT RANGE

24 36 50 60 80 100 120

SiC Fiber Disc

PROPERTIES

Backing 0.8mm vulcanised fiber
Bond Type Resin
Coating Semi-open coat
Grain Silicon carbide

MATERIALS

Non Ferrous Metal • Wood • Stone • Glass •
Marble

FEATURES

Semi-open coat ensures minimal loading

VR 571



MACHINE

FORM



GRIT RANGE

24 36 50 60 80 100 120

JUMBO FIBER DISCS

Alpha Supreme

PROPERTIES

Backing 0.8mm / 0.6mm vulcanised fiber
Bond Type Resin
Coating Close coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal
Glass fiber • Wood

FEATURES

Long life with good finish

VR / FR 561



MACHINE



FORM



GRIT RANGE

24 36 50 60 80 100 120

Cumi Flex AIO

PROPERTIES

Backing 0.8mm / 0.6mm vulcanised fiber
Bond Type Resin
Coating Close coat
Grain Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal •
Glass Fiber • Wood

FEATURES

Suitable for all purpose general grinding

VR / FR 543



MACHINE



GRIT RANGE

24 36 50 60 80 100 120

JUMBO FIBER DISCS



DIMENSIONS (D X B)						SPEED	PACK SIZE
mm	inch					rpm	qty
100 X 16	4 X 5/8					15300	100
HOLE PATTERN	GRIT	CUMI CODE					
		BLUE SPARK	SiC FIBRE DISC	ALPHA SUPREME	CUMIFLEX		
	24	JBVR581024100	JBVR571024100	JBVR561024100	JBVR543024100		
	36	JBVR581036100	JBVR571036100	JBVR561036100	JBVR543036100		
	50	JBVR581050100	JBVR571050100	JBVR561050100	JBVR543050100		
	60	JBVR581060100	JBVR571060100	JBVR561060100	JBVR543060100		
	80	JBFR581080100	JBFR571080100	JBFR561080100	JBFR543080100		
	100	JBVR581100100	JBVR571100100	JBVR561100100	JBVR543100100		
	120	JBFR581120100	JBFR571120100	JBFR561120100	JBFR543120100		

DIMENSIONS (D X B)						SPEED	PACK SIZE
mm	inch					rpm	Qty
115 X 22	4.5 x 7/8					13300	100
HOLE PATTERN	GRIT	CUMI CODE					
		BLUE SPARK	SiC FIBRE DISC	ALPHA SUPREME	CUMIFLEX		
	24	JBVR581024115	JBVR571024115	JBVR561024115	JBVR543024115		
	36	JBVR581036115	JBVR571036115	JBVR561036115	JBVR543036115		
	50	JBVR581050115	JBVR571050115	JBVR561050115	JBVR543050115		
	60	JBVR581060115	JBVR571060115	JBVR561060115	JBVR543060115		
	80	JBFR581080115	JBFR571080115	JBFR561080115	JBFR543080115		
	100	JBVR581100115	JBVR571100115	JBVR561100115	JBVR543100115		
	120	JBFR581120115	JBFR571120115	JBFR561120115	JBFR543120115		

* Other Hole Patterns available on Request

JUMBO FIBER DISCS



DIMENSIONS (D X B)				SPEED	PACK SIZE
mm	inch			rpm	Qty
125 X 22	5 x 7/8			12200	100
HOLE PATTERN	GRIT	CUMI CODE			
		BLUE SPARK	SiC FIBRE DISC	ALPHA SUPREME	CUMIFLEX
	24	JBVR581024125	JBVR571024125	JBVR561024125	JBVR543024125
	36	JBVR581036125	JBVR571036125	JBVR561036125	JBVR543036125
	50	JBVR581050125	JBVR571050125	JBVR561050125	JBVR543050125
	60	JBVR581060125	JBVR571060125	JBVR561060125	JBVR543060125
	80	JBFR581080125	JBFR571080125	JBFR561080125	JBFR543080125
	100	JBVR581100125	JBVR571100125	JBVR561100125	JBVR543100125
	120	JBFR581120125	JBFR571120125	JBFR561120125	JBFR543120125

DIMENSIONS (D X B)				SPEED	PACK SIZE
mm	inch			rpm	Qty
180 X 22	7 x 7/8			8600	100
HOLE PATTERN	GRIT	CUMI CODE			
		BLUE SPARK	SiC FIBRE DISC	ALPHA SUPREME	CUMIFLEX
	24	JBVR581024180	JBVR571024180	JBVR561024180	JBVR543024180
	36	JBVR581036180	JBVR571036180	JBVR561036180	JBVR543036180
	50	JBVR581050180	JBVR571050180	JBVR561050180	JBVR543050180
	60	JBVR581060180	JBVR571060180	JBVR561060180	JBVR543060180
	80	JBFR581080180	JBFR571080180	JBFR561080180	JBFR543080180
	100	JBVR581100180	JBVR571100180	JBVR561100180	JBVR543100180
	120	JBFR581120180	JBFR571120180	JBFR561120180	JBFR543120180

* Other Hole Patterns available on Request

TRIMMABLE DISCS

Trimmable discs are CUMI's new range of natural fiber disc. The backing of these discs are made out of natural jute which can be trimmed. These fiber discs require no backing pad and are absolutely curl free. CUMI's trimmable fiber discs are available in two different shapes.



Type 28

For ship building industry



Type 29

For all metal grinding applications

TRIMMABLE DISCS

AIO Trimmable Disc

TD 549

PROPERTIES

Backing Natural fiber
 Bond Type Resin
 Coating Close coat
 Grain Aluminium Oxide

MATERIALS

Steel • Non Ferrous Steel • Glass fiber

FEATURES

Combination of aggressive performance and curl free structure



MACHINE



TYPES



GRIT RANGE

24 36 60 80 120

TRIMMABLE DISCS

Ceramic Trimmable Disc

PROPERTIES

Backing Natural fiber
Bond Type Resin
Coating Close coat
Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless steel • Chrome steel •
Castings

FEATURES

Combination of aggressive performance and
curl free structure

GRIT RANGE
36 60 80 120

TD 592



MACHINE



TYPES



Zirconia Trimmable Disc

PROPERTIES

Backing Natural fiber
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina

MATERIALS

Steel • Stainless steel • Chrome steel •
Castings • Glass fiber

FEATURES

Combination of aggressive performance and
curl free structure

GRIT RANGE
36 60 80 120

TD 585



MACHINE



TYPES



FLAP DISCS



FLAP DISCS

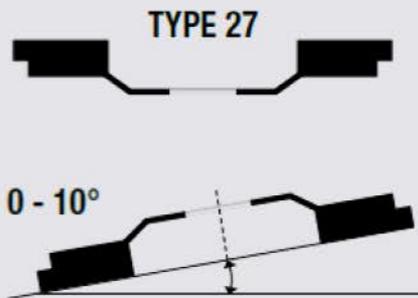
CUMI's flap disc are the one stop solution for grinding & polishing operations.

Typically, a flap disc is made of 3 components:

- Backing pad
- Bonding agent
- Abrasive cloth flaps.

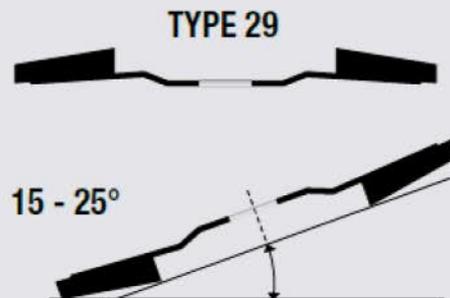


The significance of flap disc is that the abrasive grains perform the cutting action. Once the grains are fully consumed, the work piece comes in contact with the cloth material which wears away giving rise to new abrasive material to perform the operation once again. For this reason, flap discs are preferred over fiber discs and D.C wheels



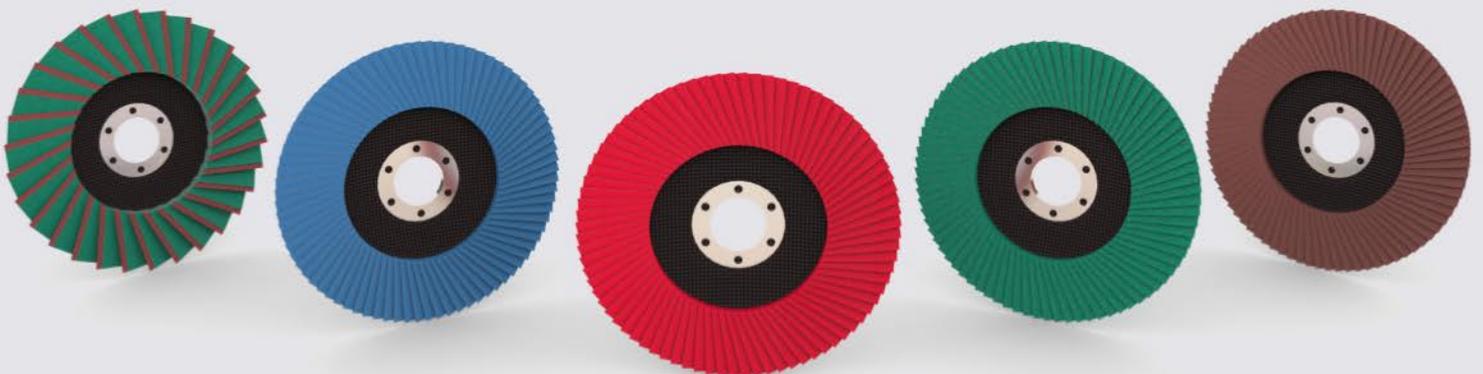
Flat flap disc for maximum contact surface for grinding.

Best suited for surface grinding applications.



Conical flap disc provides greater angles.

Best suited for grinding concave surfaces, difficult to reach areas.



BACKING PAD VARIANTS

FIBRE GLASS



Widely used variety in market

PLASTIC



Light weight & trimmable pads

ALUMINIUM



More sturdy & absorbs vibration

All of the above varieties are also available in 5/8-11" mounting hub for reduced change over time

PRODUCT LABEL EXPLANATION

EUROPEAN SAFETY STANDARD EN 12413

MAXIMUM OPERATING SPEED



CUMIFLEX BRANDING

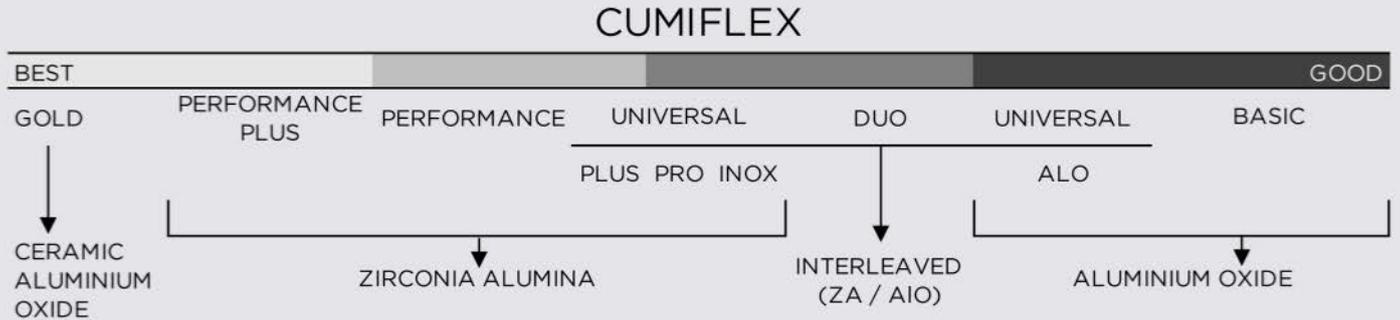
SPEED BAND

PICTOGRAM

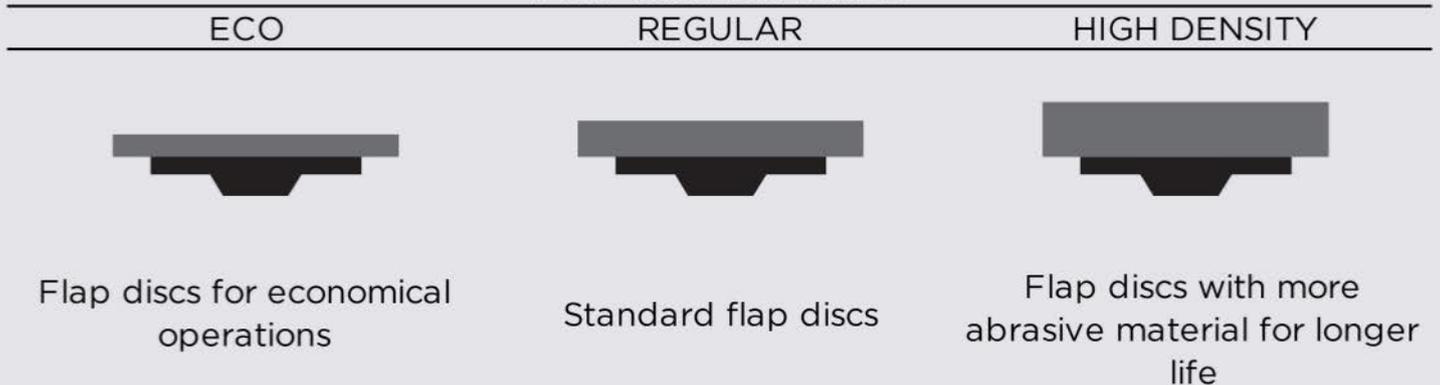
PRODUCT DIMENSION

ABOUT CUMIFLEX FLAP DISCS:

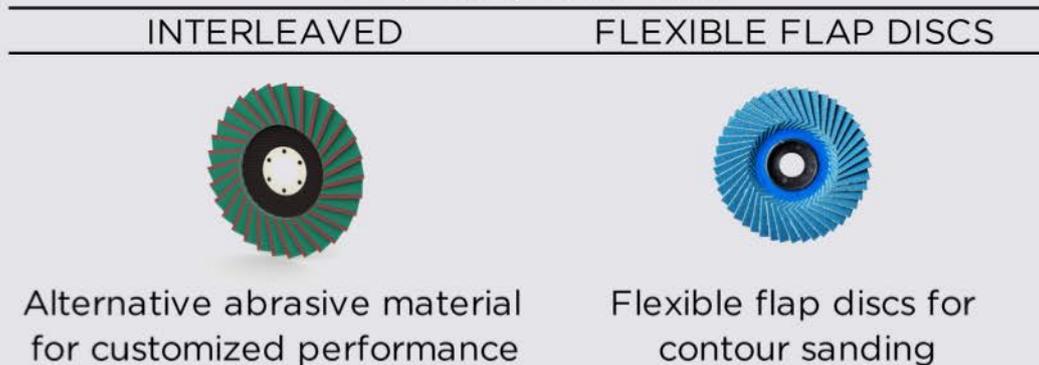
Cumiflex range of flap discs are manufactured with specially designed abrasive cloth exclusively for flap discs. The abrasive materials are chosen depending on the end application thereby yielding maximum performance and longer life. Cumiflex range of flap discs increases productivity and reduces total grinding costs. Cumiflex flap discs can be broadly classified under the following categories :



FLAP DISC DENSITIES



FLAP DISC VARIANTS



APPLICATION GUIDE

BACKING	GRAIN TYPE	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL			
					Steel	Stainless Steel	Non Ferrous Metal	Wood
CLOTH	Ceramic Aluminium Oxide	YS 599	Cumiflex Gold	●	●	●		
	Zirconia Alumina	YS 589	Cumiflex Performance Plus	●	●	●		
		XS 581	Cumiflex Performance	●	●	●		
		YS 588	Cumiflex Universal Pro	●	●	●		
		XS 588	Cumiflex Universal Plus	●	●	●	●	●
		XD 589	Cumiflex Universal Inox	●	●	●	●	●
	Interleaved (ZA/AIO)	XS 588/XD 540	Cumiflex Duo	●	●	●		
	Aluminium Oxide	XS 561	Cumiflex Universal AIO	●	●	●		
		XD 549	Cumiflex Basic	●	●		●	●

● CLOSE COAT

◐ SEMI-OPEN COAT

CLOTH BASED

Cumiflex Gold

PROPERTIES

Backing Y - weight polycotton
Bond Type Resin
Coating Semi-open
Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless Steel

FEATURES

Faster cut-rate with reduced grinding temperature

GRIT RANGE
40 60 80 120

YS 599



MACHINE SPECIAL



Cumiflex Performance Plus

PROPERTIES

Backing Y - weight polycotton
Bond Type Resin
Coating Semi-open
Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel

FEATURES

Premium Zirconia Alumina grains assists in faster cutting action under pressure

GRIT RANGE
40 60 80 120

YS 589



MACHINE SPECIAL



CLOTH BASED

Cumiflex Performance

PROPERTIES

Backing X - weight polycotton
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina

MATERIALS

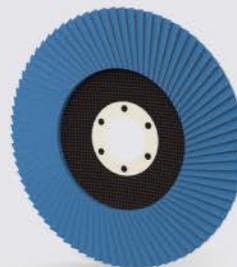
Steel • Stainless Steel

FEATURES

Close coat for aggressive cut & longer life

GRIT RANGE
24 36 60 80 120

XS 581



MACHINE

FORM



Cumiflex Universal Pro

PROPERTIES

Backing Y - weight polycotton
Bond Type Resin
Coating Semi-open
Grain Zirconia Alumina

MATERIALS

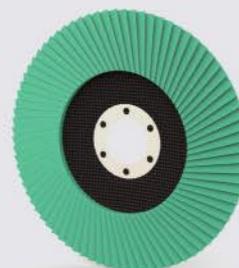
Steel • Stainless Steel

FEATURES

Special coating for cooler cutting action in stainless steel. Suitable for heavy duty grinding

GRIT RANGE
40 60 80 120

YS 588



MACHINE

FORM

SPECIAL



CLOTH BASED

Cumiflex Universal Plus

PROPERTIES

Backing X - weight cotton
 Bond Type Resin
 Coating Semi-open
 Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • Wood

FEATURES

Special coating for cooler cutting action in stainless steel. Suitable for light to medium pressure grinding

GRIT RANGE

60 80 120

XS 588



MACHINE



FORM



SPECIAL



Cumiflex Universal Inox

PROPERTIES

Backing X - weight cotton
 Bond Type Resin
 Coating Semi-open
 Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • Wood

FEATURES

Suitable for all purpose general grinding

GRIT RANGE

40 60 80 120

XD 589



MACHINE



FORM



FLAP DISC REGULAR RANGE



DIMENSIONS (D X B)								SPEED	PACK SIZE
mm	inch							rpm	qty
100 X 16	4 X 5/8							15300	120
TYPE	GRIT	CUMI CODE							
		GOLD	PERFORMANCE PLUS	PERFORMANCE	UNIVERSAL PRO	UNIVERSAL PLUS	UNIVERSAL INOX		
	40	27YS599040100	27YS589040100	27XS581040100	27YS588040100	27XS588040100	27XD589040100		
	60	27YS599060100	27YS589060100	27XS581060100	27YS588060100	27XS588060100	27XD589060100		
	80	27YS599080100	27YS589080100	27XS581080100	27YS588080100	27XS588080100	27XD589080100		
	120	27YS599120100	27YS589120100	27XS581120100	27YS588120100	27XS588120100	27XD589120100		
	40	29YS599040100	29YS589040100	29XS581040100	29YS588040100	29XS588040100	29XD589040100		
	60	29YS599060100	29YS589060100	29XS581060100	29YS588060100	29XS588060100	29XD589060100		
	80	29YS599080100	29YS589080100	29XS581080100	29YS588080100	29XS588080100	29XD589080100		
	120	29YS599120100	29YS589120100	29XS581120100	29YS588120100	29XS588120100	29XD589120100		

DIMENSIONS (D X B)								SPEED	PACK SIZE
mm	inch							rpm	qty
115 X 22.23	4.5 X 7/8							13300	120
TYPE	GRIT	CUMI CODE							
		GOLD	PERFORMANCE PLUS	PERFORMANCE	UNIVERSAL PRO	UNIVERSAL PLUS	UNIVERSAL INOX		
	40	27YS599040115	27YS589040115	27XS581040115	27YS588040115	27XS588040115	27XD589040115		
	60	27YS599060115	27YS589060115	27XS581060115	27YS588060115	27XS588060115	27XD589060115		
	80	27YS599080115	27YS589080115	27XS581080115	27YS588080115	27XS588080115	27XD589080115		
	120	27YS599120115	27YS589120115	27XS581120115	27YS588120115	27XS588120115	27XD589120115		
	40	29YS599040115	29YS589040115	29XS581040115	29YS588040115	29XS588040115	29XD589040115		
	60	29YS599060115	29YS589060115	29XS581060115	29YS588060115	29XS588060115	29XD589060115		
	80	29YS599080115	29YS589080115	29XS581080115	29YS588080115	29XS588080115	29XD589080115		
	120	29YS599120115	29YS589120115	29XS581120115	29YS588120115	29XS588120115	29XD589120115		

* Flap Discs with 5/8 -11" Mounting Hub available on request

* Flap discs with trimmable & Aluminium backing pads available on request

*Eco and High density variant in flap disc available on request

FLAP DISC REGULAR RANGE



DIMENSIONS (D X B)								SPEED	PACK SIZE
mm	inch							rpm	qty
125	5							12200	120
TYPE	GRIT	CUMI CODE							
		GOLD	PERFORMANCE PLUS	PERFORMANCE	UNIVERSAL PRO	UNIVERSAL PLUS	UNIVERSAL INOX		
	40	27YS599040125	27YS589040125	27XS581040125	27YS588040125	27XS588040125	27XD589040125		
	60	27YS599060125	27YS589060125	27XS581060125	27YS588060125	27XS588060125	27XD589060125		
	80	27YS599080125	27YS589080125	27XS581080125	27YS588080125	27XS588080125	27XD589080125		
	120	27YS599120125	27YS589120125	27XS581120125	27YS588120125	27XS588120125	27XD589120125		
	40	29YS599040125	29YS589040125	29XS581040125	29YS588040125	29XS588040125	29XD589040125		
	60	29YS599060125	29YS589060125	29XS581060125	29YS588060125	29XS588060125	29XD589060125		
	80	29YS599080125	29YS589080125	29XS581080125	29YS588080125	29XS588080125	29XD589080125		
	120	29YS599120125	29YS589120125	29XS581120125	29YS588120125	29XS588120125	29XD589120125		

DIMENSIONS (D X B)								SPEED	PACK SIZE
mm	inch							rpm	qty
178	7							8600	120
TYPE	GRIT	CUMI CODE							
		GOLD	PERFORMANCE PLUS	PERFORMANCE	UNIVERSAL PRO	UNIVERSAL PLUS	UNIVERSAL INOX		
	40	27YS599040178	27YS589040178	27XS581040178	27YS588040178	27XS588040178	27XD589040178		
	60	27YS599060178	27YS589060178	27XS581060178	27YS588060178	27XS588060178	27XD589060178		
	80	27YS599080178	27YS589080178	27XS581080178	27YS588080178	27XS588080178	27XD589080178		
	120	27YS599120178	27YS589120178	27XS581120178	27YS588120178	27XS588120178	27XD589120178		
	40	29YS599040178	29YS589040178	29XS581040178	29YS588040178	29XS588040178	29XD589040178		
	60	29YS599060178	29YS589060178	29XS581060178	29YS588060178	29XS588060178	29XD589060178		
	80	29YS599080178	29YS589080178	29XS581080178	29YS588080178	29XS588080178	29XD589080178		
	120	29YS599120178	29YS589120178	29XS581120178	29YS588120178	29XS588120178	29XD589120178		

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CLOTH BASED

Cumiflex Duo

PROPERTIES

Backing X - weight polycotton
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina /
Aluminium Oxide

MATERIALS

Steel • Stainless Steel

FEATURES

Combination of Zirconia Alumina and Aluminium Oxide abrasive flaps for economical and efficient grinding

GRIT RANGE

40 60 80 120

XS588/XD540



MACHINE SPECIAL



Cumiflex Universal AIO

PROPERTIES

Backing X - weight polycotton
Bond Type Resin
Coating Close coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel

FEATURES

Suitable for heavy duty grinding

GRIT RANGE

36 60 80 120

XS 561



MACHINE FORM



CLOTH BASED

Cumiflex Basic

XD 549

PROPERTIES

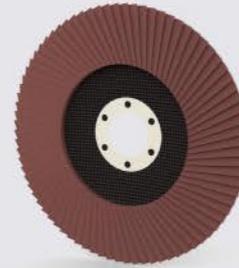
Backing X - weight cotton
Bond Type Resin
Coating Semi-open
Grain Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal •
Wood

FEATURES

Suitable for all purpose general grinding



GRIT RANGE

40 60 80 120

FLAP DISC REGULAR RANGE

DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
100 X 16	4 X 5/8			15300
TYPE	GRIT	CUMI CODE		
		DUO	UNIVERSAL ALO	BASIC
	40	27XYDUO040100	27XS561040100	27XD549040100
	60	27XYDUO060100	27XS561060100	27XD549060100
	80	27XYDUO080100	27XS561080100	27XD549080100
	120	27XYDUO120100	27XS561120100	27XD549120100
	40	29XYDUO040100	29XS561040100	29XD549040100
	60	29XYDUO060100	29XS561060100	29XD549060100
	80	29XYDUO080100	29XS561080100	29XD549080100
	120	29XYDUO120100	29XS561120100	29XD549120100

DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
115 X 22.23	4.5 X 7/8			13300
TYPE	GRIT	CUMI CODE		
		DUO	UNIVERSAL ALO	BASIC
	40	27XYDUO040115	27XS561040115	27XD549040115
	60	27XYDUO060115	27XS561060115	27XD549060115
	80	27XYDUO080115	27XS561080115	27XD549080115
	120	27XYDUO120115	27XS561120115	27XD549120115
	40	29XYDUO040115	29XS561040115	29XD549040115
	60	29XYDUO060115	29XS561060115	29XD549060115
	80	29XYDUO080115	29XS561080115	29XD549080115
	120	29XYDUO120115	29XS561120115	29XD549120115

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* Flap discs with trimmable & Aluminium backing pads available on request

* High density variant in flap disc available on request

FLAP DISC REGULAR RANGE

DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
125 X 22.23	5 X 7/8			12200
TYPE	GRIT	CUMI CODE		
		DUO	UNIVERSAL ALO	BASIC
	40	27XYDUO040125	27XS561040125	27XD549040125
	60	27XYDUO060125	27XS561060125	27XD549060125
	80	27XYDUO080125	27XS561080125	27XD549080125
	120	27XYDUO120125	27XS561120125	27XD549120125
	40	29XYDUO040125	29XS561040125	29XD549040125
	60	29XYDUO060125	29XS561060125	29XD549060125
	80	29XYDUO080125	29XS561080125	29XD549080125
	120	29XYDUO120125	29XS561120125	29XD549120125

DIMENSIONS (D X B)			SPEED	PACK SIZE
mm	inch		rpm	qty
178 X 22.23	7 X 7/8			8600
TYPE	GRIT	CUMI CODE		
		DUO	UNIVERSAL ALO	BASIC
	40	27XYDUO040178	27XS561040178	27XD549040178
	60	27XYDUO060178	27XS561060178	27XD549060178
	80	27XYDUO080178	27XS561080178	27XD549080178
	120	27XYDUO120178	27XS561120178	27XD549120178
	40	29XYDUO040178	29XS561040178	29XD549040178
	60	29XYDUO060178	29XS561060178	29XD549060178
	80	29XYDUO080178	29XS561080178	29XD549080178
	120	29XYDUO120178	29XS561120178	29XD549120178

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* Flap discs with trimmable & Aluminium backing pads available on request

* High density variant in flap disc available on request



DISCS



DISCS

CUMI's discs find extensive use in surface preparation applications on metal, composite, wood, wall etc.,. Available in paper, cloth, film and fiber backing with different abrasives suiting different needs, they are designed for stripping, intermediate finishing and polishing applications. Wide range of hole patterns available to suit different machines.

- PSA • Hook'n loop • Plain discs
- Quick change discs
- Double side discs



HOOK 'N LOOP



QUICK CHANGE DISC



PSA



DOUBLE SIDED DISC



PSA / HOOK 'N LOOP DISCS

Cumi's PSA / Hook 'n loop discs are available in a wide range of sizes and hole patterns to suit different machines and applications. All of these discs are also available as individual discs based on customer requirement



PSA



HOOK 'N LOOP



HOLE PATTERNS



5" 5holes



5" 8holes



5" 9holes



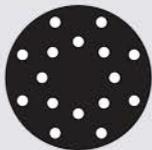
6" 5holes



6" 8holes



6" 9holes



6" 16holes



7" 8holes



9" 8holes



9" no holes



10" no holes

APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL					
				Steel	Stainless Steel	Filler / Glass Fiber	Wood	Cement	Paint / Varnish
PAPER	FP 594	Ceramic Paper Disc	●	●	●	●	●	●	●
	FP 584	Zirconia Paper Disc	●	●	●	●	●	●	●
	FP 574	SiC Paper Disc	●	●	●	●	●	●	●
	FP 567	AIO Paper Disc	●	●	●	●	●	●	●
	CP 544	AIO Anti Static Paper Disc	●	●	●	●	●	●	●
	CP 547	AIO Stearate Paper Disc	●			●	●		
CLOTH	YS 592	Ceramic Cloth Disc	●	●	●				
	YY 585	Premium Zirconia Cloth Disc	●	●	●				
	XS 581	Zirconia Cloth Disc	●	●	●	●	●		●
	YS 582	Zirconia Cloth Disc	●	●	●				●
	XS 561	AIO Cloth Disc	●	●	●	●	●		●
FILM	LF 567	AIO Film Disc	●	●	●		●		●

● CLOSE COAT

◐ SEMI-OPEN COAT

PAPER BASED

Ceramic Paper Disc

PROPERTIES

Backing F - weight paper
Bond Type Resin
Coating Semi-open coat
Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Cement • Paint • Varnish

FEATURES

Premium Ceramic Aluminium Oxide grains
for faster cutting action and longer life

GRIT RANGE

60 80 100 120

FP 594



MACHINE



FORMS



Zirconia Paper Disc

PROPERTIES

Backing F - weight paper
Bond Type Resin
Coating Semi-open coat
Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Cement • Paint • Varnish

FEATURES

Modified bond system for high cut rate

GRIT RANGE

60 80 120

FP 584



MACHINE



FORMS



PAPER BASED

SiC Paper Disc

PROPERTIES

Backing F - weight paper
Bond Type Resin
Coating Semi-open coat
Grain Silicon Carbide

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Cement

FEATURES

Modified Bond system for fast cutting action

FP 574



MACHINE

FORM



GRIT RANGE

60 80 120 150

AIO Paper Disc

PROPERTIES

Backing F - weight paper
Bond Type Resin
Coating Semi-open coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Cement • Paint • Varnish

FEATURES

Modified Bond system for extra durability

FP 567



MACHINE

FORM



GRIT RANGE

60 80 120 150 180 220 320

PAPER BASED

AIO Anti Static Paper Disc

PROPERTIES

Backing C - weight paper
Bond Type Resin
Coating Semi-open coat
Grain Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Cement • Paint • Varnish

FEATURES

Antistatic property enhances performance

CP 544



MACHINE FORM



GRIT RANGE

40 60 80 120 150 180 220 320 400

AIO Stearate Paper Disc

PROPERTIES

Backing C - weight paper
Bond Type Resin
Coating Semi-open coat
Grain Aluminium Oxide

MATERIALS

Filler • Glass Fiber • Wood

FEATURES

Special stearate coating for anti-clogging effect

CP 547



MACHINE FORM



GRIT RANGE

60 80 100 120 150 180 220 240 280 320 400 600

CLOTH BASED

Ceramic Cloth Disc

PROPERTIES

Backing Y - weight polycotton
Bond Type Resin
Coating Close coat
Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless Steel

FEATURES

Micro crystalline ceramic grains enhances cut rate & durability

GRIT RANGE

36 60 80 120

YS 592



MACHINE

FORM

SPECIAL



Premium Zirconia Cloth Disc

PROPERTIES

Backing Y - weight heavy polyester
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel

FEATURES

Tough bond with supersize coat ensures cooler cutting action

GRIT RANGE

36 60 80 120

YY 585



MACHINE

FORM

SPECIAL



CLOTH BASED

Zirconia Cloth Disc

PROPERTIES

Backing X - weight polycotton
Bond Type Resin
Coating Semi-open coat
Grain Zirconia Alumina

MATERIALS

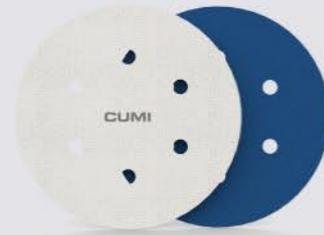
Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Paint • Varnish

FEATURES

Durable backing with self sharpening grains provide outstanding performance

GRIT RANGE
24 36 60 80 120

XS 581



MACHINE



FORM



Zirconia Cloth Disc

PROPERTIES

Backing Y - weight polycotton
Bond Type Resin
Coating Close coat
Grain Zirconia Alumina

MATERIALS

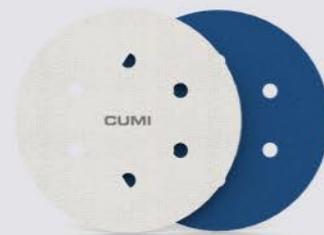
Steel • Stainless Steel • Paint • Varnish

FEATURES

Self sharpening grains provide outstanding performance

GRIT RANGE
80 120

YS 582



MACHINE



CLOTH BASED

AIO Cloth Disc

XS 561

PROPERTIES

Backing X - weight polycotton
Bond Type Resin
Coating Close coat
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Paint • Varnish

FEATURES

Premium grains & resin for high material
removal rate



MACHINE

FORM



GRIT RANGE

36 60 80 120



PSA / HOOK 'N LOOP



COATED ABRASIVES

FILM BASED

AIO Film Disc

LF 567

PROPERTIES

Backing	Film backing
Bond Type	Resin
Coating	Close coat
Grain	Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Filler • Glass Fiber •
Wood • Paint • Varnish

FEATURES

Film backing facilitates excellent finish



MACHINE



GRITRANGE

60 80 100 120 150 180 220 240 280 320 400 600 800 1000 1200 1500 2000



PSA / HOOK 'N LOOP

CUMI

COATED ABRASIVES

QUICK CHANGE DISCS

Cumi's range of quick change discs are the ideal choice for operations ranging from grinding to finishing. Due to its quick change system, these discs have gained more popularity increasing productivity and reducing change over time drastically. Quick change discs are available in two types of fastener attachments



TYPE R

Roll on/ roll off style threaded bush

Bush made of plastic



TYPE S

Turn on/ Turn off style bush

Bush made of metal



CLOTH BASED

Ceramic Cloth Disc

PROPERTIES

Backing Y - weight heavy polyester
 Bond Type Resin
 Coating Close coat
 Grain Ceramic Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Titanium • Casting

FEATURES

Tough bond with supersize coat ensures cooler cutting action

GRIT RANGE

36 60 80 120

YS 592



MACHINE

FORM



Premium Zirconia Cloth Disc

PROPERTIES

Backing Y - weight heavy polyester
 Bond Type Resin
 Coating Close coat
 Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel • Titanium • Casting

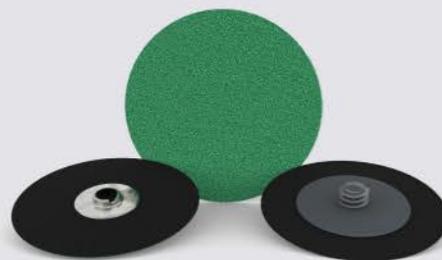
FEATURES

Tough bond with supersize coat ensures cooler cutting action

GRIT RANGE

36 60 80 120

YY 585



MACHINE

FORM

SPECIAL



CLOTH BASED

Zirconia Cloth Disc

PROPERTIES

Backing Y - weight polycotton
Bond Type Resin
Coating Semi-open
Grain Zirconia Alumina

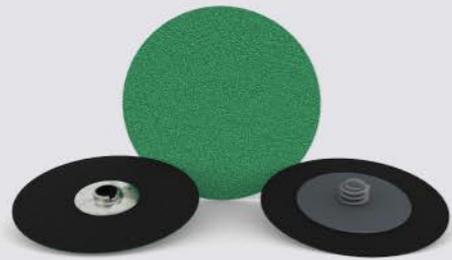
MATERIALS

Steel • Stainless Steel

FEATURES

Special coating for cooler cutting action in stainless steel

YS 588



MACHINE



FORM



SPECIAL



GRIT RANGE

40 60 80 120

FIBER BASED

Blue Spark

PROPERTIES

Backing 0.8mm Vulcanised Fibre
Bond Type Resin
Coating Close
Grain Zirconia Alumina

MATERIALS

Steel • Stainless Steel • Titanium • Casting

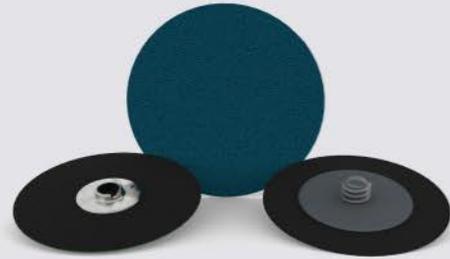
FEATURES

Premium grains for aggressive cut

GRIT RANGE

24 36 50 60 80

VR 581



MACHINE

FORM



Alpha Supreme

PROPERTIES

Backing 0.8mm Vulcanised Fibre
Bond Type Resin
Coating Semi-open
Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel

FEATURES

Long life with good finish

GRIT RANGE

24 36 50 60 80

VR 561

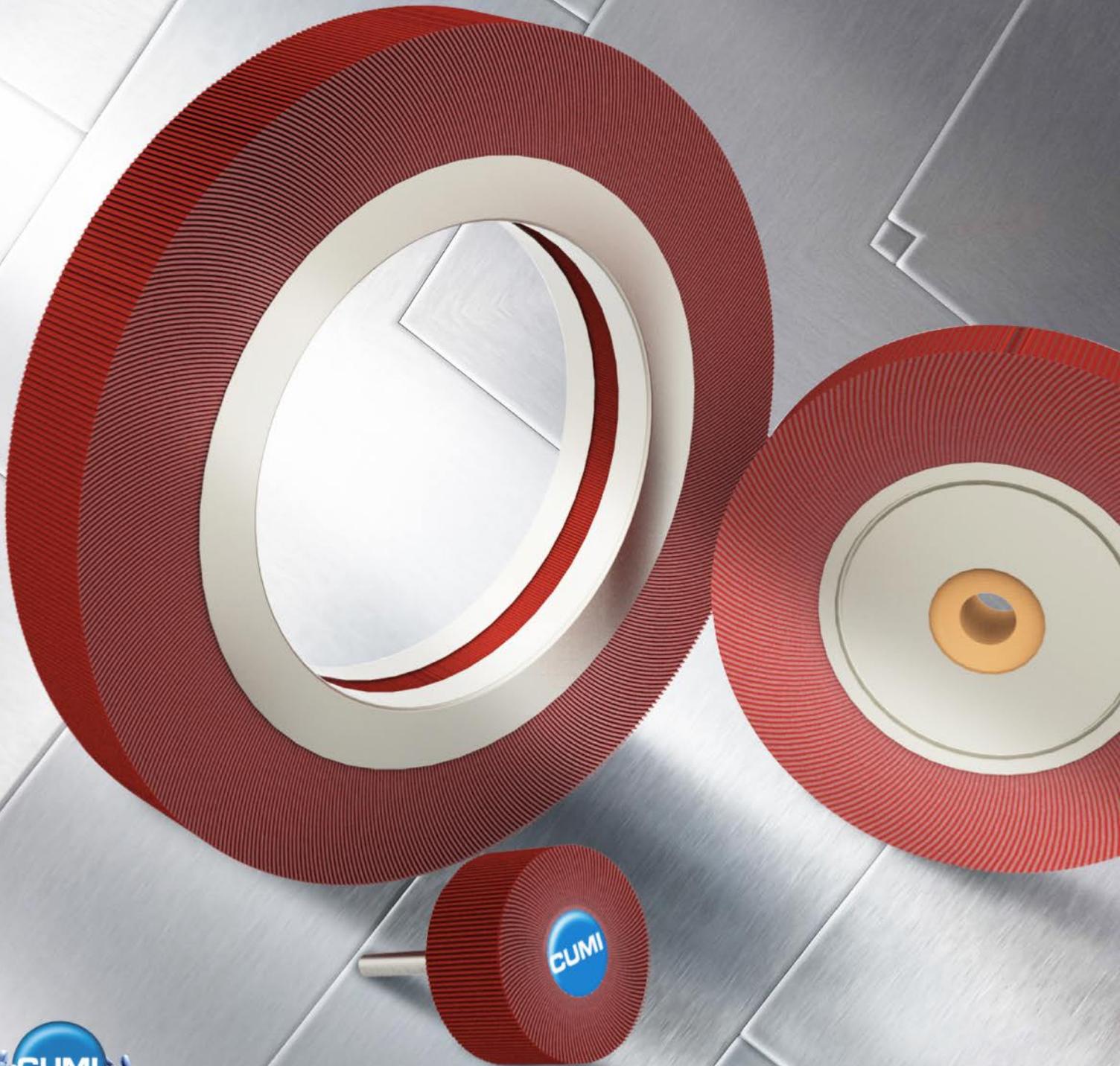


MACHINE

FORM



FLAP WHEELS



FLAP WHEELS

Flap wheels are products with abrasive cloth flaps arranged around a central core. Flap wheels are ideal products for numerous applications ranging from stock removal to polishing. Known for their flexibility, they are preferred for sanding of contour edges and intricate shapes. Similar to flap disc, an important characteristic of flap wheel is its cloth which will wear away over usage giving rise to fresh abrasive grains.



ADVANTAGES OF CUMI FLAP WHEELS

- Premium grains for faster cutting action
- Special cloth treatment for excellent wear properties
- Active fillers for burn free operation
- Specific products for specific applications
- Customizable sizes based on requirement



AVAILABLE VARIANTS

CLOTH

XF 569	XD 589
XF 567	XD 589/
XG 542	XD 549

CLOTH BASED

Premium AIO Flexible Abrasive Cloth

XF 569

PROPERTIES

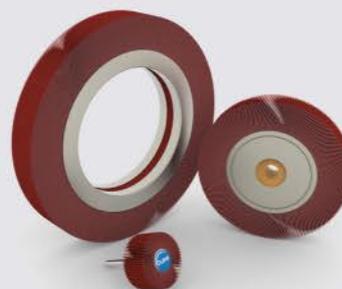
Backing X - weight flexible cotton
 Bond Type Resin
 Coating Close coat
 Grain Premium Aluminium Oxide

APPLICATIONS

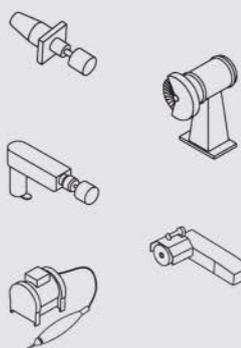
Steel • Stainless Steel • S.S Pipes • Profiled
 Steel Sections • Tools • Cutlery

FEATURES

For applications demanding high cut rate



MACHINE



FORM



GRITRANGE

60 80 100 120 150 180 220 320 400 600

AIO Abrasive Cloth

XF 567

PROPERTIES

Backing X - weight cotton
 Bond Type Resin
 Coating Close coat
 Grain Premium Aluminium Oxide

APPLICATIONS

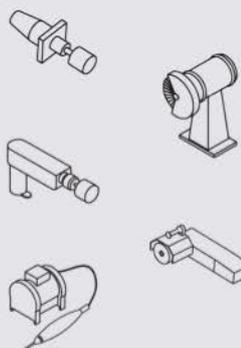
Steel • Stainless Steel • S.S Pipes • Profiled
 Steel Sections • Tools • Cutlery

FEATURES

For applications demanding extra durability



MACHINE



FORM



GRITRANGE

36 50 60 80 100 120 150 180 220 320 400 600

CLOTH BASED

AIO Abrasive Cloth

XG 542

PROPERTIES

Backing X - weight cotton
Bond Type Resin
Coating Close coat
Grain Aluminium Oxide

APPLICATIONS

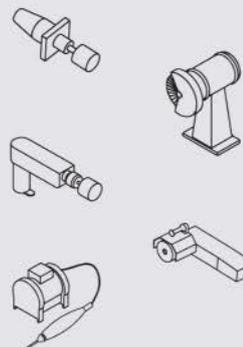
Steel • Stainless Steel • S.S Pipes • Profiled
Steel Sections • Tools • Cutlery

FEATURES

For all purpose general grinding



MACHINE



FORM



GRITRANGE

36 50 60 80 100 120 150 180 220 320 400 600 800 1000 1200



FLAP WHEELS

CUMI

COATED ABRASIVES

CLOTH BASED

Zirconia Abrasive Cloth

PROPERTIES

Backing X - weight cotton
 Bond Type Resin
 Coating Close coat
 Grain Zirconia Alumina

APPLICATIONS

Steel • Stainless Steel • S.S Pipes • Profiled Steel Sections • Tools • Cutlery

FEATURES

For applications demanding high cut rate

GRIT RANGE

40 60 80 120

XD 589



MACHINE

FORM



Interleaved (AlO / Zirconia) Cloth

PROPERTIES

Backing X - weight cotton
 Bond Type Resin
 Coating Semi-open coat
 Grain Zirconia Alumina / Aluminium Oxide

APPLICATIONS

Steel • Stainless Steel • S.S Pipes • Profiled Steel Sections • Tools • Cutlery

FEATURES

Combination flaps for high material removal at medium pressure

GRIT RANGE

40 60 80 120

XD 589/ XD 549



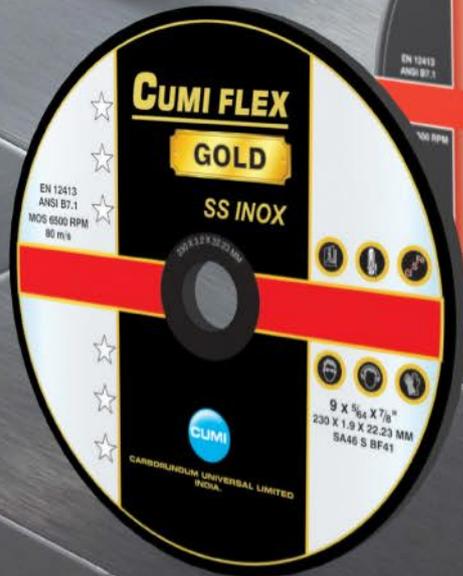
MACHINE

FORM



FABRICATION & WELDING INDUSTRY

CUTTING AND GRINDING WHEELS



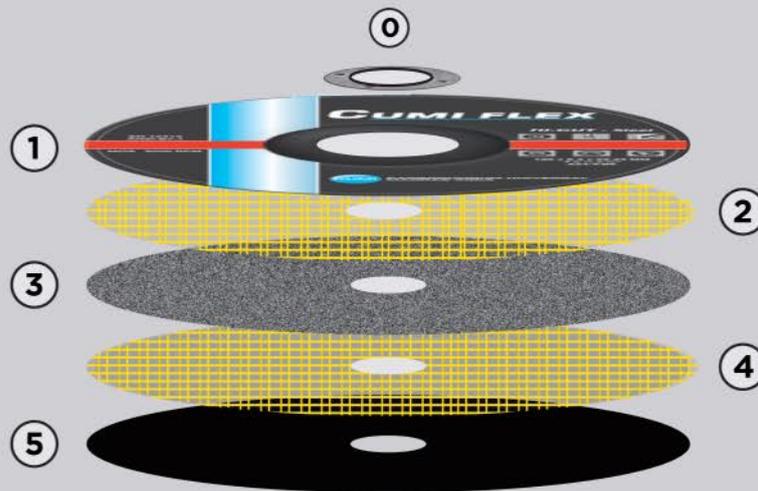
CARBORUNDUM UNIVERSAL LIMITED

CUTTING & GRINDING WHEELS

About Cutting & Grinding Wheels:

Cutting & grinding wheels comprises of abrasive grains held together by resin bonds and are reinforced by glass fibers. Ranging from 1mm to 9mm thickness, they are extensively used in various industries like construction, fabrication, foundries shipyards, aerospace and automotive.

COMPONENTS OF GRINDING WHEELS



METAL
BUSH

0

LABEL

1

GLASS FIBER
REINFORCEMENT

2

MIXTURE OF
ABRASIVE GRAINS,
RESINS & FILLERS

3

GLASS FIBER
REINFORCEMENT

4

BLACK
PAPER

5



ABOUT CUMIFLEX

CUMIFLEX cutting & grinding wheels are produced in the state of the art manufacturing facility, with stringent process controls and final product quality checks. By this, not only the best grinding performances are achieved, but also the highest level of product safety is maintained in accordance with EN 12413 and ANSI B7.1 standards.

The uniqueness of the product design allows for the most optimum grinding performance - good cutting action and excellent tool life, consistently throughout the product life. The core strength of CUMI has been the ability to customize products for specific application needs. While this application guide is just a starting point, our engineers are always there to help out with any specific applications or queries.

SPEED CONVERSION

Wheel Diameter	Maximum peripheral operating speed in m/s		
(mm)	63	80	100
100	12100	15300	19100
115	10500	13300	16650
125	9650	12250	15300
150	8050	10200	12700
180	6700	8500	10650
200	6050	7650	9550
230	5250	6650	8350
300/305	4050	5100	6400
350/356	3450	4400	5500
400/406	3050	3850	4800



PRODUCT LABEL EXPLANATION



PRODUCT CODE EXPLANATION

27	HCT	100	63	T
WHEEL TYPE	APPLICATION CATEGORY	WHEEL DIAMETER	WHEEL THICKNESS	GRADE HARDNESS
TYPE27	HCT Hicut - Steel	100 = 100 mm	63 = 6.3 mm	R Soft
TYPE41	ZRC Zirconia			T Medium
TYPE42	INO SS Inox			U Hard
	HCB Hicarb - Stone			
	ALU Aluminium			
	CHA Chop Saw Steel			
	CHC Chop Saw Stone			

PICTOGRAMS



CUMIFLEX RANGE

Cumiflex cutting & grinding wheels are available in three different variants classified based on performance and life



CUMIFLEX GOLD

Premium products for high performance and longer life with lower operating costs satisfying customer demands



CUMIFLEX PERFORMANCE

Product range optimised for an excellent combination of life and performance for various applications



CUMIFLEX UNIVERSAL

Universal products designed for price - performance ratio offering good performance levels

COLOR CODE RELATIONSHIP



 CERAMIC

 STEEL

 ZIRCONIA



 SS- INOX

 STONE

 ALUMINIUM

MACHINE PICTOGRAMS



ANGLE GRINDER



CHOP SAW



STATIONERY MACHINE



PETROL SAW



EN 12413



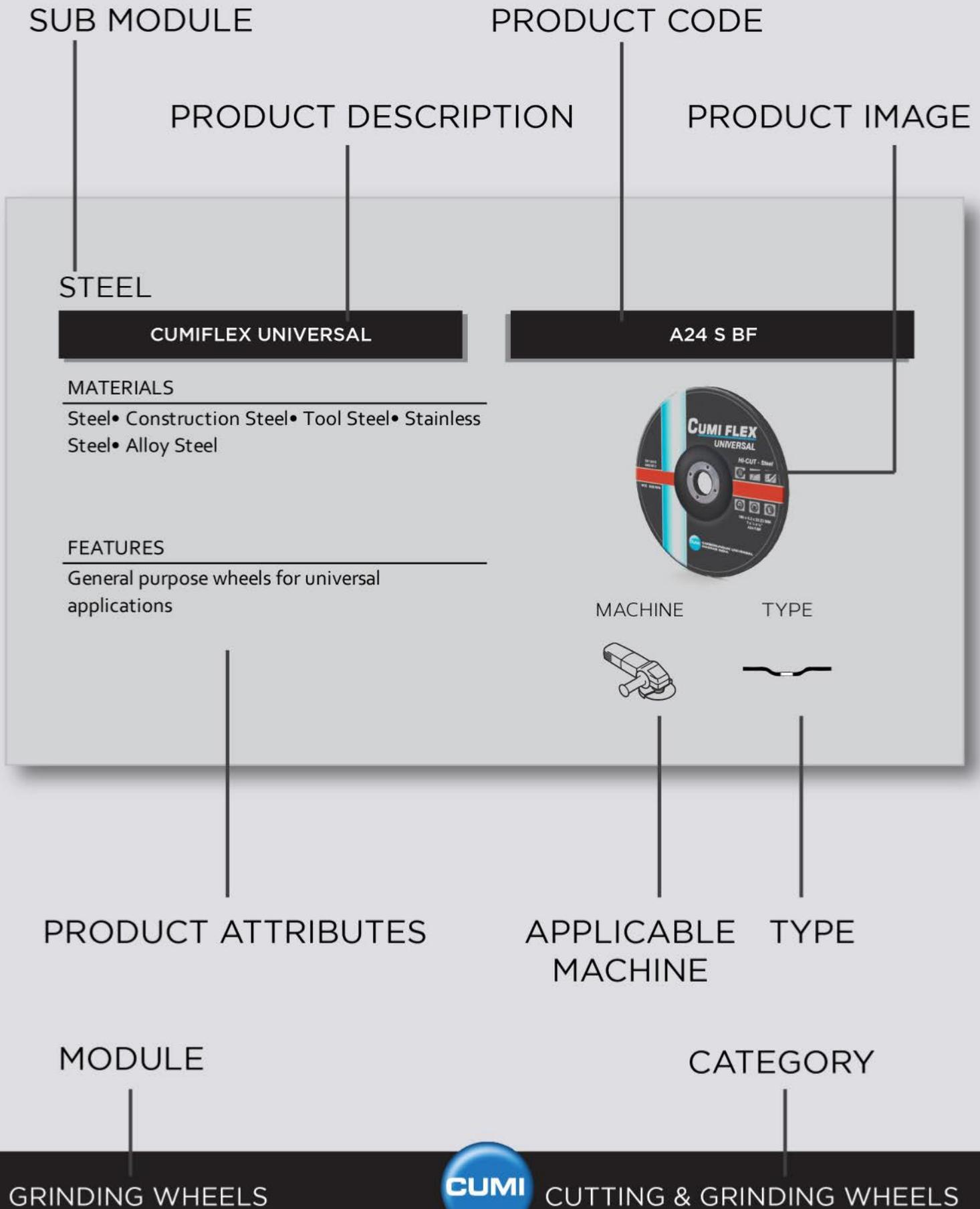
DO

1. DO always follow instructions for proper storage.
2. DO always visually inspect grinding wheels before mounting.
3. DO always use a safety guard, which should cover nearly one half of the grinding wheel.
4. DO always use non-reinforced cutting-off wheels on fixed stationary machines.
5. DO always allow newly mounted wheels to run at operating speed with the guard in place for atleast one minute before cutting or grinding.
6. DO have machine speeds checked regularly, especially after maintenance or repair.
7. DO grind at the prescribed angle to the item with depressed-centre grinding wheels on an angle grinding machine.
8. DO always wear protective safety clothing, dust masks, eye and ear protection.

DON'T

1. DON'T store wheels in a damp atmosphere or in extreme temperatures.
2. DON'T use non-reinforced cutting-off wheels on portable machines.
3. DON'T mount a damaged wheel.
4. DON'T exceed the maximum operating speed marked on the wheel.
5. DON'T force a wheel onto a machine spindle.
6. DON'T use mounting flanges which are incorrect, damaged, or worn out.
7. DON'T tighten the mounting nut or locking flange excessively. This can distort the flanges.
8. DON'T apply side pressure to cutting-off wheels.
9. DON'T stop the wheel after use by applying pressure to the wheel edge or side. Always switch off the machine and allow the wheel to stop running.

HOW TO READ THE BROCHURE

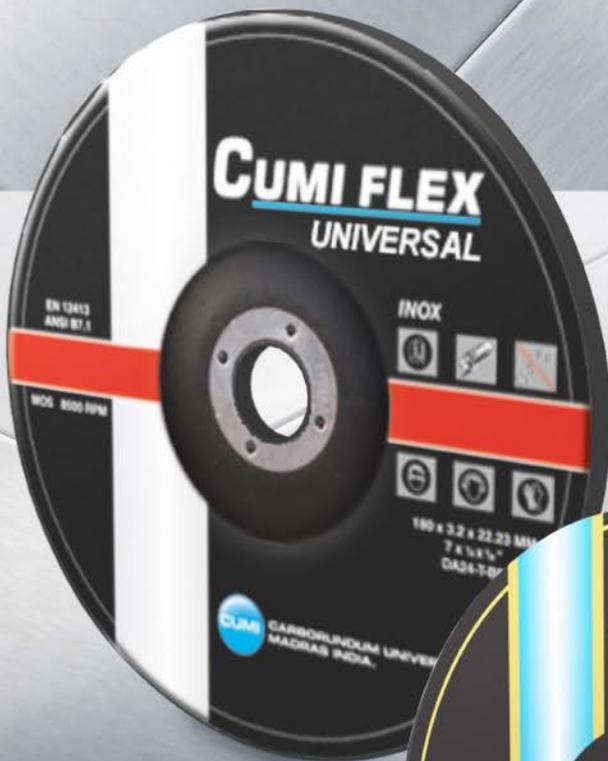


GRINDING WHEELS



CUTTING & GRINDING WHEELS

GRINDING WHEELS



STEEL

High performance wheels suited for weld and edge grinding

CUMIFLEX GOLD

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

FEATURES

High Performance abrasive grains with specially designed bond for best in class performance

SA24 T BF



MACHINE

TYPE



CUMIFLEX PERFORMANCE

MATERIALS

Steel • Construction Steel • Tool Steel •
Stainless Steel • Alloy Steel

FEATURES

Premium blend of abrasive grains for optimum life and grinding action

A24 T BF



MACHINE

TYPE



STEEL

CUMIFLEX UNIVERSAL

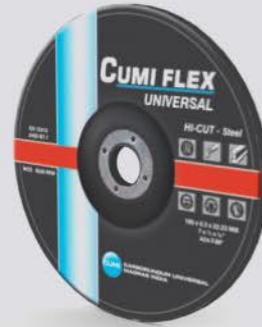
MATERIALS

- Steel • Construction Steel • Tool Steel
 • Stainless Steel • Alloy Steel

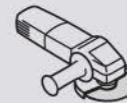
FEATURES

General purpose wheels for universal applications

A24 S BF



MACHINE



TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE			SPEED	PACK
	mm	inch	GOLD	PERFORMANCE	UNIVERSAL	rpm	qty
	100 x 4 x 16	4 x 5/32 x 5/8	27HCT10040U	27HCT10040T	27HCT10040S	15300	100
	100 x 6.3 x 16	4 x 1/4 x 5/8	27HCT10063U	27HCT10063T	27HCT10063S	15300	100
	115 x 4 x 22.23	4-1/2 x 5/32 x 7/8	27HCT11540U	27HCT11540T	27HCT11540S	13300	100
	115 x 6.3 x 22.23	4-1/2 x 1/4 x 7/8	27HCT11563U	27HCT11563T	27HCT11563S	13300	100
	125 x 6.3 x 22.23	5 x 1/4 x 7/8	27HCT12563U	27HCT12563T	27HCT12563S	12250	100
	150 x 6.3 x 22.23	6 x 1/4 x 7/8	27HCT15063U	27HCT15063T	27HCT15063S	10200	100
	180 x 4 x 22.23	7 x 5/32 x 7/8	27HCT18040U	27HCT18040T	27HCT18040S	8500	25
	180 x 6.3 x 22.23	7 x 1/4 x 7/8	27HCT18063U	27HCT18063T	27HCT18063S	8500	25
	230 x 6.3 x 22.23	9 x 1/4 x 7/8	27HCT23063U	27HCT23063T	27HCT23063S	6650	25

5/8-11" mounting hub available on request

STEEL

CUMIFLEX UNIVERSAL PLUS

MATERIALS

- Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

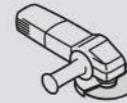
FEATURES

Grooved pattern for high metal removal rate and smoother cutting with less load on operator

A24 S BF



MACHINE



TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK
	mm	inch			
	100 x 4 x 16	4 x 5/32 x 5/8	27HCT10040SP	15300	100
	100 x 6.3 x 16	4 x 1/4 x 5/8	27HCT10063SP	15300	100
	115 x 4 x 22.23	4-1/2 x 5/32 x 7/8	27HCT11540SP	13300	100
	115 x 6.3 x 22.23	4-1/2 x 1/4 x 7/8	27HCT11563SP	13300	100
	125 x 6.3 x 22.23	5 x 1/4 x 7/8	27HCT12563SP	12250	100
	150 x 6.3 x 22.23	6 x 1/4 x 7/8	27HCT15063SP	10200	100
	180 x 4 x 22.23	7 x 5/32 x 7/8	27HCT18040SP	8500	25
	180 x 6.3 x 22.23	7 x 1/4 x 7/8	27HCT18063SP	8500	25
	230 x 6.3 x 22.23	9 x 1/4 x 7/8	27HCT23063SP	6650	25

5/8-11" mounting hub available on request



ZIRCONIA

Premium grinding wheels for Stainless Steel with excellent cutting action and long wheel life.

CUMIFLEX PERFORMANCE

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

FEATURES

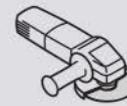
Premium zirconia grains for superior grinding experience

ZA24 T BF



MACHINE

TYPE



CUMIFLEX UNIVERSAL

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

FEATURES

Zirconia grain combination for faster and aggressive grinding

AZA24 T BF



MACHINE

TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED	PACK
	mm	inch	PERFORMANCE	UNIVERSAL	rpm	qty
	100 x 6.3 x 16	4 x 1/4 x 5/8	27ZIR10063T	27ZIR10063S	15300	100
	115 x 6.3 x 22.23	4-1/2 x 1/4 x 7/8	27ZIR11563T	27ZIR11563S	13330	100
	125 x 6.3 x 22.23	5 x 1/4 x 7/8	27ZIR12563T	27ZIR12563S	12250	100
	150 x 6.3 x 22.23	6 x 1/4 x 7/8	27ZIR15063T	27ZIR15063S	10200	100
	180 x 6.3 x 22.23	7 x 1/4 x 7/8	27ZIR18063T	27ZIR18063S	8500	25
	230 x 6.3 x 22.23	9 x 1/4 x 7/8	27ZIR23063T	27ZIR23063S	6650	25

5/8-11" mounting hub available on request

SS - INOX

Special wheel for use in nuclear power plants, free from Iron, Chlorine and Sulphur.

CUMIFLEX GOLD

MATERIALS

Nuclear Industry • Stainless Steel • Alloy Steel

FEATURES

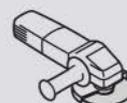
- Premium blend of abrasive grains for burr-free grinding
- Fe, S, Cl < 0.1%

DA24 T BF



MACHINE

TYPE



CUMIFLEX PERFORMANCE

MATERIALS

Nuclear Industry • Stainless Steel • Alloy Steel

FEATURES

- Optimised grain - bond system for easy grinding action
- Fe, S, Cl < 0.1%

DA24 S BF



MACHINE

TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED rpm	PACK qty
	mm	inch	GOLD	PERFORMANCE		
	100 x 4 x 16	4 x 5/32 x 5/8	27INO10040U	27INO10040T	15300	100
	100 x 6.3 x 16	4 x 1/4 x 5/8	27INO10063U	27INO10063T	15300	100
	115 x 4 x 22.23	4-1/2 x 5/32 x 7/8	27INO11540U	27INO11540T	13330	100
	115 x 6.3 x 22.23	4-1/2 x 1/4 x 7/8	27INO11563U	27INO11563T	13330	100
	125 x 6.3 x 22.23	5 x 1/4 x 7/8	27INO12563U	27INO12563T	12250	100
	180 x 4 x 22.23	7 x 5/32 x 7/8	27INO18040U	27INO18040T	8500	25
	180 x 6.3 x 22.23	7 x 1/4 x 7/8	27INO18063U	27INO18063T	8500	25
	230 x 6.3 x 22.23	9 x 1/4 x 7/8	27INO23063U	27INO23063T	6650	25

5/8-11" mounting hub available on request

ALUMINIUM

Standard wheel for working on Aluminium and other non-ferrous metals.

CUMIFLEX PERFORMANCE

A24 P BF

MATERIALS

Aluminium • Copper • Brass • Bronze

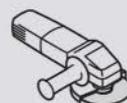
FEATURES

Superior grain - bond combination that prevents glazing & loading problems



MACHINE

TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK
	mm	inch	PERFORMANCE	rpm	qty
	100 x 6.3 x 16	4 x 1/4 x 5/8	27ALU10063T	15300	100
	115 x 6.3 x 22.23	4-1/2 x 1/4 x 7/8	27ALU11563T	13330	100
	125 x 6.3 x 22.23	5 x 1/4 x 7/8	27ALU12563T	12250	100
	150 x 6.3 x 22.23	6 x 1/4 x 7/8	27ALU15063T	10200	100
	180 x 6.3 x 22.23	7 x 1/4 x 7/8	27ALU18063T	8500	25
	230 x 6.3 x 22.23	9 x 1/4 x 7/8	27ALU23063T	6650	25

5/8-11" mounting hub available on request



CUTTING WHEELS



STEEL

Cutting wheels suitable for all metal cutting applications.

CUMIFLEX GOLD

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

FEATURES

High Performance abrasive grains with specially designed bond for best in class performance

SA30 T BF



MACHINE



TYPE



CUMIFLEX PERFORMANCE

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

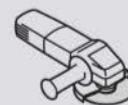
FEATURES

Premium blend of abrasive grains for optimum life and cutting action

A30 T BF



MACHINE



TYPE



STEEL

TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED rpm	PACK SIZE qty
	mm	inch	GOLD	PERFORMANCE		
	100 x 3.2 x 16	4 x 1/8 x 5/8	42HCT10032U	42HCT10032T	15300	100
	115 x 3.2 x 22.23	4-1/2 x 1/8 x 7/8	42HCT11532U	42HCT11532T	13300	100
	125 x 3.2 x 22.23	5 x 1/8 x 7/8	42HCT12532U	42HCT12532T	12250	100
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	42HCT18032U	42HCT18032T	8500	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	42HCT23032U	42HCT23032T	6650	50

5/8-11" safety hub available on request

TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED rpm	PACK SIZE qty
	mm	inch	GOLD	PERFORMANCE		
	100 x 2.5 x 16	4 x 3/32 x 5/8	41HCT10025U	41HCT10025T	15300	100
	100 x 3.2 x 16	4 x 1/8 x 5/8	41HCT10032U	41HCT10032T	15300	100
	115 x 2.5 x 22.23	4-1/2 x 3/32 x 7/8	41HCT11525U	41HCT11525T	13300	100
	115 x 3.2 x 22.23	4-1/2 x 1/8 x 7/8	41HCT11532U	41HCT11532T	13300	100
	125 x 2.5 x 22.23	5 x 3/32 x 7/8	41HCT12525U	41HCT12525T	12250	100
	125 x 3.2 x 22.23	5 x 1/8 x 7/8	41HCT12532U	41HCT12532T	12250	100
	180 x 2.5 x 22.23	7 x 3/32 x 7/8	41HCT18025U	41HCT18025T	8500	50
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	41HCT18032U	41HCT18032T	8500	50
	230 x 2.5 x 22.23	9 x 3/32 x 7/8	41HCT23025U	41HCT23025T	8500	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	41HCT23032U	41HCT23032T	8500	50

5/8-11" mounting hub available on request



ZIRCONIA

Premium cutting wheel for Stainless Steel and other metals with excellent cutting action and longer wheel life.

CUMIFLEX GOLD

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

FEATURES

Premium zirconia grains for superior cutting experience



MACHINE

TYPE



CUMIFLEX PERFORMANCE

MATERIALS

Steel • Construction Steel • Tool Steel
• Stainless Steel • Alloy Steel

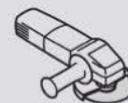
FEATURES

Zirconia grain combination for faster and aggressive cutting



MACHINE

TYPE



ZIRCONIA

TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED	PACK SIZE
	mm	inch	GOLD	PERFORMANCE	rpm	qty
	100 x 3.2 x 16	4 x 1/8 x 5/8	42ZRC10032U	42ZRC10032T	15300	100
	115 x 3.2 x 22.23	4-1/2 x 1/8 x 7/8	42ZRC11532U	42ZRC11532T	13300	100
	125 x 3.2 x 22.23	5 x 1/8 x 7/8	42ZRC12532U	42ZRC12532T	12250	100
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	42ZRC18032U	42ZRC18032T	8500	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	42ZRC23032U	42ZRC23032T	6650	50

5/8-11" mounting hub available on request

TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED	PACK SIZE
	mm	inch	GOLD	PERFORMANCE	rpm	qty
	100 x 3.2 x 16	4 x 1/8 x 5/8	41ZRC10032U	41ZRC10032T	15300	100
	115 x 3.2 x 22.23	4-1/2 x 1/8 x 7/8	41ZRC11532U	41ZRC11532T	13300	100
	125 x 3.2 x 22.23	5 x 1/8 x 7/8	41ZRC12532U	41ZRC12532T	12250	100
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	41ZRC18032U	41ZRC18032T	8500	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	41ZRC23032U	41ZRC23032T	6650	50

5/8-11" mounting hub available on request



SS - INOX

Special cutting wheel for use in nuclear power plants, free from Iron, Chlorine and Sulphur.

CUMIFLEX GOLD

DA30 S BF

MATERIALS

Stainless Steel • Alloy Steel • Nuclear Industry

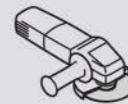
FEATURES

- Premium blend of abrasive grains for burr-free cutting
- Fe, S, Cl < 0.1%



MACHINE

TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
	mm	inch			
	100 x 2.5 x 16	4 x 3/32 x 5/8	42INO10025T	15300	100
	100 x 3.2 x 16	4 x 1/8 x 5/8	42INO10032T	15300	100
	115 x 2.5 x 22.23	4-1/2 x 3/32 x 7/8	41INO11525T	13300	100
	115 x 3.2 x 22.23	4-1/2 x 1/8 x 7/8	41INO11532T	13300	100
	125 x 2.5 x 22.23	5 x 3/32 x 7/8	42INO12525T	12250	100
	125 x 3.2 x 22.23	5 x 1/8 x 7/8	42INO12532T	12250	100
	180 x 2.5 x 22.23	7 x 3/32 x 7/8	42INO12532T	8500	50
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	42INO12532T	8500	50
	230 x 2.5 x 22.23	9 x 3/32 x 7/8	42INO12532T	6650	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	42INO12532T	6650	50

TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
	mm	inch			
	100 x 2.5 x 16	4 x 3/32 x 5/8	41INO10025T	15300	100
	100 x 3.2 x 16	4 x 1/8 x 5/8	41INO10032T	15300	100
	115 x 2.5 x 22.23	4-1/2 x 3/32 x 7/8	41INO11525T	13300	100
	115 x 3.2 x 22.23	4-1/2 x 1/8 x 7/8	41INO11532T	13300	100
	125 x 2.5 x 22.23	5 x 3/32 x 7/8	41INO12525T	12250	100
	125 x 3.2 x 22.23	5 x 1/8 x 7/8	41INO12532T	12250	100
	180 x 2.5 x 22.23	7 x 3/32 x 7/8	41INO12532T	8500	50
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	41INO12532T	8500	50
	230 x 2.5 x 22.23	9 x 3/32 x 7/8	41INO12532T	6650	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	41INO12532T	6650	50

5/8-11" mounting hub available on request

ALUMINIUM

Quick cutting wheel for Aluminium, non-ferrous and sticky metals.

CUMIFLEX PERFORMANCE

A30 Q BF

MATERIALS

Aluminium • Copper • Brass • Bronze

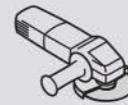
FEATURES

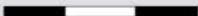
Superior grain - bond combination that prevents glazing & loading problems



MACHINE

TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
	mm	inch	PERFORMANCE	rpm	qty
	100X 3.2 X 16	4 x 1/8 x 5/8	41ALU10032T	15300	100
	115X3.2X22.23	4-1/2 x 1/8 x 7/8	41ALU11532T	13300	100
	123X3.2X22.23	5 x 1/8 x 7/8	41ALU12532T	12250	100
	180 x 3.2 x 22.23	7 x 1/8 x 7/8	41ALU18032T	8500	50
	230 x 3.2 x 22.23	9 x 1/8 x 7/8	41ALU23032T	6650	50

5/8-11" mounting hub available on request

SS - INOX

Special cutting wheel for use in nuclear power plants, free from Iron, Chlorine and Sulphur.

CUMIFLEX GOLD

MATERIALS

Nuclear Industry • Stainless Steel • Alloy Steel

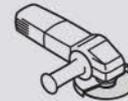
FEATURES

- Superior grain - bond system for best in class results
- Fe, S, Cl < 0.1%

SA46 S BF / SA60 S BF



MACHINE



TYPE



CUMIFLEX PERFORMANCE

MATERIALS

Nuclear Industry • Stainless Steel • Alloy Steel

FEATURES

- Premium blend of abrasive grains for burr-free cutting
- Fe, S, Cl < 0.1%

DA46 S BF / DA60 S BF



MACHINE



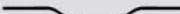
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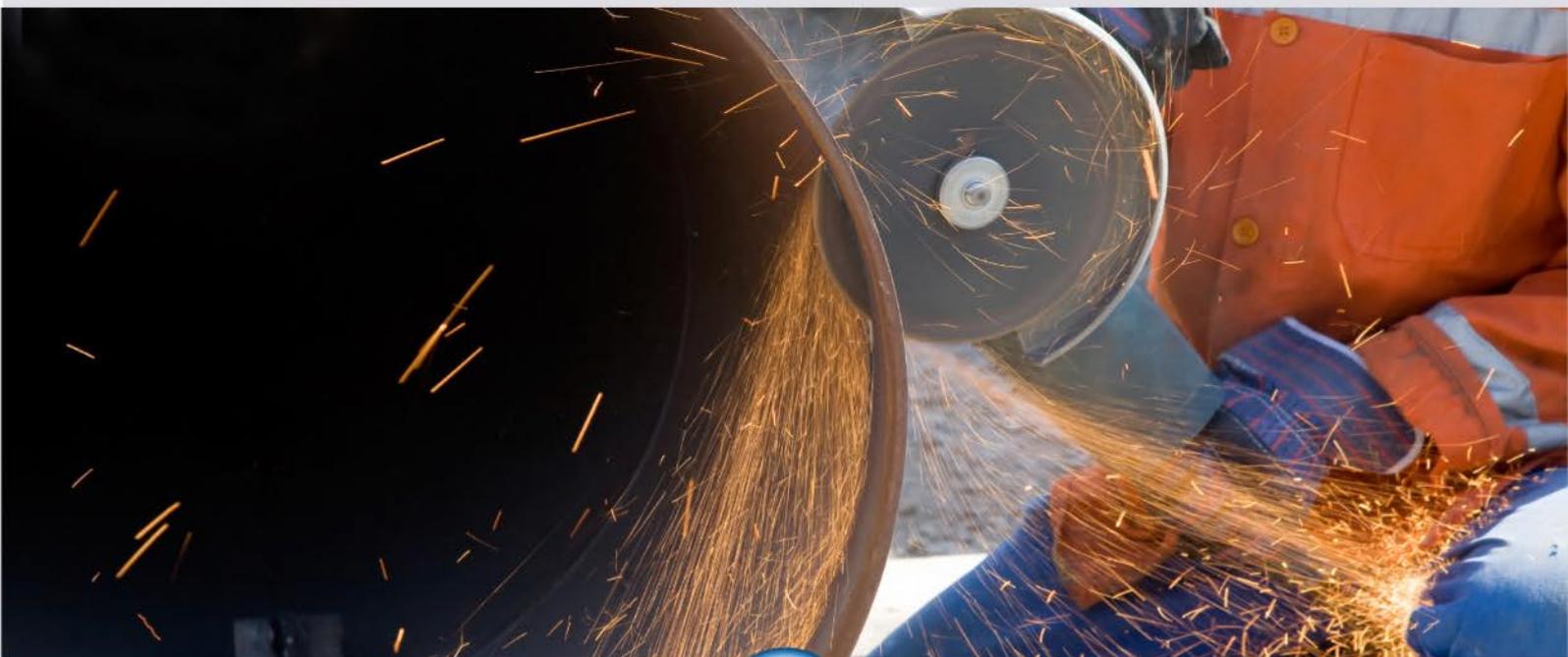
SS - INOX

TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED	PACK SIZE
	mm	inch	GOLD	PERFORMANCE	rpm	qty
	100 x 1 x 16	4 x 0.04 x 5/8	41INO10010U	41INO10010T	15300	100
	100 x 1.2 x 16	4 x 3/64 x 5/8	41INO10012U	41INO10012T	15300	100
	100 x 1.6 x 16	4 x 1/16 x 5/8	41INO10016U	41INO10016T	15300	100
	100 x 2 x 16	4 x 5/64 x 5/8	41INO10020U	41INO10020T	15300	100
	115 x 1 x 22.23	4-1/2 x 0.04 x 7/8	41INO11510U	41INO11510T	13300	100
	115 x 1.2 x 22.23	4-1/2 x 3/64 x 7/8	41INO11512U	41INO11512T	13300	100
	115 x 1.6 x 22.23	4-1/2 x 1/16 x 7/8	41INO11516U	41INO11516T	13300	100
	115 x 2 x 22.23	4-1/2 x 5/64 x 7/8	41INO11520U	41INO11520T	13300	100
	125 x 1 x 22.23	5 x 0.04 x 7/8	41INO12510U	41INO12510T	12250	100
	125 x 1.2 x 22.23	5 x 3/64 x 7/8	41INO12512U	41INO12512T	12250	100
	125 x 1.6 x 22.23	5 x 1/16 x 7/8	41INO12516U	41INO12516T	12250	100
	125 x 2 x 22.23	5 x 5/64 x 7/8	41INO12520U	41INO12520T	12250	100
	180x1.6x22.23	7 x 1/16 x 7/8	41INO18016U	41INO18016T	8500	100
	180x1.9x22.23	7 x 5/64 x 7/8	41INO18019U	41INO18019T	6650	100
	230x1.9x22.23	9 x 5/64 x 7/8	41INO23019U	41INO23019T	6650	100

5/8-11" mounting hub available on request

TYPE	DIMENSIONS (D x T x B)		CUMI CODE		SPEED	PACK SIZE
	mm	inch	GOLD	PERFORMANCE	rpm	qty
	115 x 1.6 x 22.23	4-1/2 x 1/16 x 7/8	42INO11516U	42INO11516T	13300	100
	115 x 2 x 22.23	4-1/2 x 5/64 x 7/8	42INO11520U	42INO11520T	13300	100
	125 x 1.6 x 22.23	5 x 1/16 x 7/8	42INO12516U	42INO12516T	12250	100
	125 x 2 x 22.23	5 x 5/64 x 7/8	42INO12520U	42INO12520T	12250	100
	180 x 1.6 x 22.23	7 x 1/16 x 7/8	42INO18016U	42INO18016T	8500	100
	180 x 1.9 x 22.23	7 x 5/64 x 7/8	42INO18019U	42INO18019T	6650	100
	230 x 1.9 x 22.23	9 x 5/64 x 7/8	42INO23019U	42INO23019T	6650	100

5/8-11" mounting hub available on request



CERAMIC

Thin cutting wheels with premium Ceramic Aluminium Oxide grains fractures under pressure thereby giving high cut rate.

CUMIFLEX GOLD

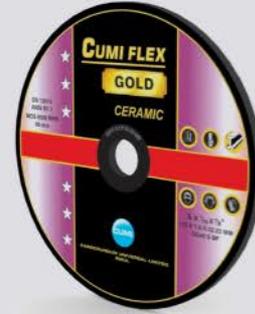
SG46 S BF / SG60 S BF

MATERIALS

Stainless Steel • Nuclear Industry

FEATURES

Micro crystalline fracture of ceramic grains yield quick cutting action with longer life



MACHINE

TYPE



TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
	mm	inch			
	100 x 1 x 16	4 x 0.04 x 5/8	41CER10010U	15300	100
	100 x 1.2 x 16	4 x 3/64 x 5/8	41CER10012U	15300	100
	100 x 1.6 x 16	4 x 1/16 x 5/8	41CER10016U	15300	100
	115 x 1 x 22.23	4-1/2 x 3/64 x 7/8	41CER11510U	13300	100
	115 x 1.2 x 22.23	4-1/2 x 3/64 x 7/8	41CER11512U	13300	100
	115 x 1.6 x 22.23	4-1/2 x 1/16 x 7/8	41CER11516U	13300	100
	125 x 1 x 22.23	5 x 3/64 x 7/8	41CER12510U	12250	100
	125 x 1.2 x 22.23	5 x 3/64 x 7/8	41CER12512U	12250	100
	125 x 1.6 x 22.23	5 x 1/16 x 7/8	41CER12516U	12250	100

5/8-11" mounting hub available on request



LARGE DIA CUTTING WHEELS



STEEL / STAINLESS STEEL (Centre reinforced cutting wheel)

Centre reinforced cutting wheels suitable for fast cutting of metal on chop saw machines.

CUMIFLEX PERFORMANCE

A30 S BF41

MATERIALS

- Steel
- Construction Steel
- Tool Steel
- Stainless Steel
- Alloy Steel



MACHINE

TYPE



CRITERIA	TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
		mm	inch			
Centre reinforced		300 x 3.2 x 25.4	12 x 1/8 x 1	41CHA30032R	5100 rpm	25 qty
		350 x 3.2 x 25.4	14 x 1/8 x 1	41CHA35032R	4400 rpm	25 qty
		400 x 3.2 x 25.4	16 x 1/8 x 1	41CHA40032R	3850 rpm	25 qty



STEEL / STAINLESS STEEL (Double Side reinforced cutting wheel)

Double side reinforced cutting wheels suitable for metal cutting on stationary saw machines

CUMIFLEX PERFORMANCE

A30 T BF41

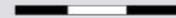
MATERIALS

- Steel
- Construction Steel
- Tool Steel
- Stainless Steel
- Alloy Steel



MACHINE

TYPE



CRITERIA	TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
		mm	inch			
Double Side Reinforced		300 x 3.2 x 25.4	12 x 1/8 x 1	41HCT30032S	5100	25
		350 x 3.2 x 25.4	14 x 1/8 x 1	41HCT35032S	4400	25
		400 x 3.2 x 25.4	16 x 1/8 x 1	41HCT40032S	3850	25

STEEL / STAINLESS STEEL (For Petrol saw Machine)

CUMIFLEX PERFORMANCE

A30 S BF41

MATERIALS

- Steel
- Construction Steel
- Tool Steel
- Stainless Steel
- Alloy Steel

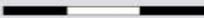


MACHINE



TYPE



CRITERIA	TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
		mm	inch	PERFORMANCE	rpm	qty
Petrol saws		300 x 3.2 x 20	12 x 1/8 x 20 mm	41HPS30032S	5100	25
		350 x 3.2 x 20	14 x 1/8 x 20 mm	41HPS35032S	4400	25
		400 x 3.2 x 20	16 x 1/8 x 20 mm	41HPS40032S	3850	25

* Also available in 25.4 mm (1") bore

** Also available in 100 m/sec



ZIRCONIA (Double Side reinforced cutting wheel)

Double side reinforced cutting wheels suitable for metal cutting on stationary saw machines

CUMIFLEX PERFORMANCE

ZA30 T BF41

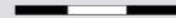
MATERIALS

- Steel
- Construction Steel
- Tool Steel
- Stainless Steel
- Alloy Steel
- Grey Cast iron
- SG Cast Iron



MACHINE

TYPE



CRITERIA	TYPE	DIMENSIONS (D x T x B)		CUMI CODE	SPEED	PACK SIZE
		mm	inch			
Double Side Reinforced		300 x 3.2 x 25.4	12 x 1/8 x 1	41ZRC30032S	5100	25
		350 x 3.2 x 25.4	14 x 1/8 x 1	41ZRC35032S	4400	25
		400 x 3.2 x 25.4	16 x 1/8 x 1	41ZRC40032S	3850	25

FABRICATION & WELDING INDUSTRY

NON WOVEN ABRASIVES



9SF

Max 4500 RPM

INDUSTRIAL USE ONLY

Size 203x25x75mm

CONVOLUTE WHEEL
CARBORUNDUM UNIVERSAL LIMITED
Chennai

Max Speed

12000 RPM

Size

13mm

Gr

3

INDUSTRIAL USE ONLY

CARBORUNDUM UNIVERSAL LIMITED



CARBORUNDUM UNIVERSAL LIMITED

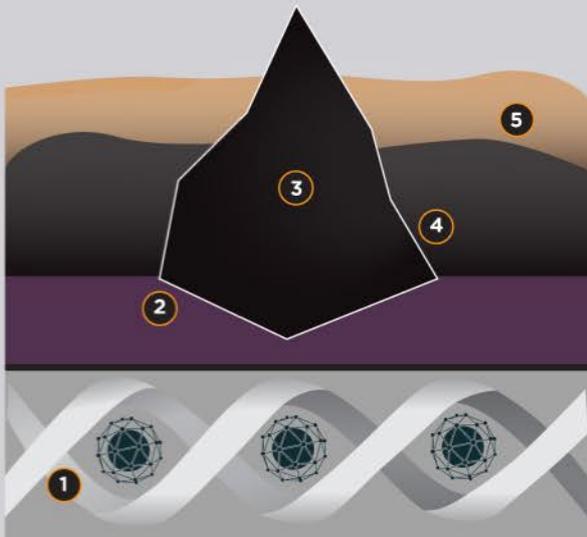
About CUMITEX Non Woven Abrasives:

CUMI proudly presents its “CUMITEX” range of non-woven abrasive products for high performance polishing, blending, deburring, cleaning and finishing applications. Cumitex non-woven abrasives are three dimensional composite materials made from high tenacity **Polyamide 66** fibers uniformly coated with high performance abrasive grains and water proof bond.

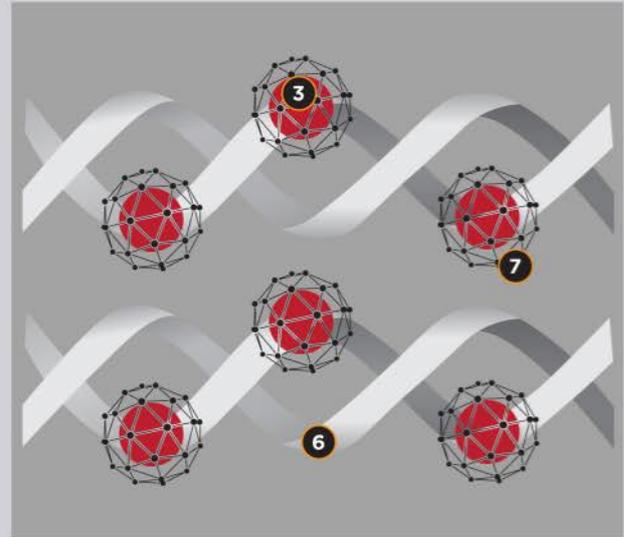
The Cumitex range of non-woven abrasives consists of flat stocks (hand pads & rolls), surface conditioning belts, unitized wheels, convolute wheels, quick change discs, unitized discs, shaft mounted flap wheels and flange mounted flap wheels.

COMPARISON BETWEEN THE STRUCTURES

COATED ABRASIVES



NON WOVEN ABRASIVES



- 1 BACKING
- 2 MAKER COAT
- 3 ABRASIVE GRAIN
- 4 SIZER COAT
- 5 TOP COAT
*OPTIONAL
- 6 FIBER
- 7 RESIN BINDER

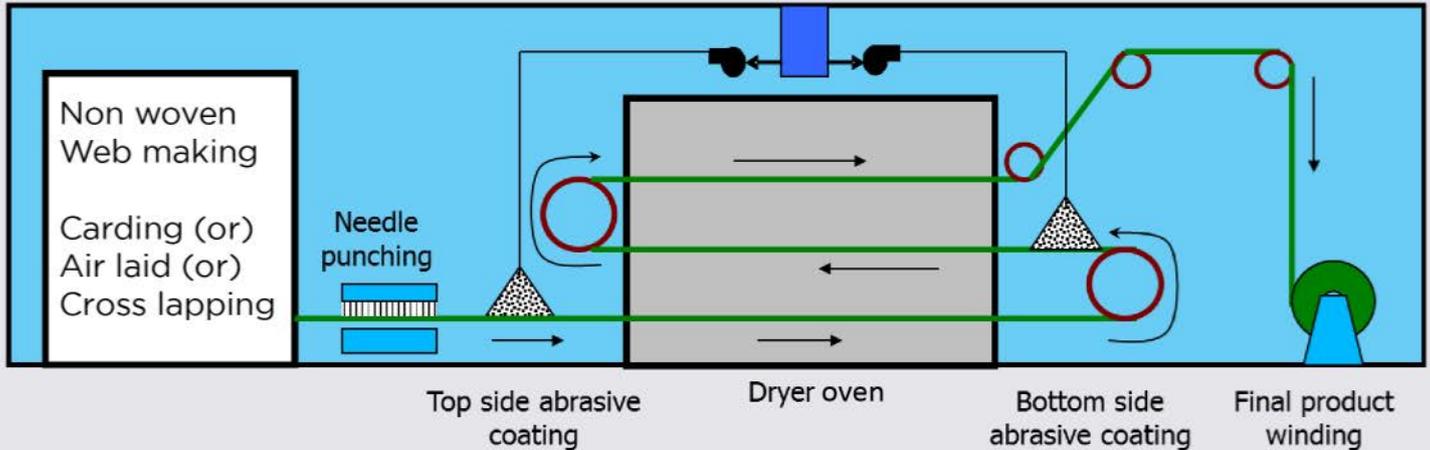
COATED ABRASIVES

Single layer of abrasives
Rigid woven cloth backing
(For material removal)
Closed backing structure

NON WOVEN ABRASIVES

Multiple layers of abrasives
Flexible non woven backing
(For polishing)
Open backing structure

MANUFACTURING PROCESS



CUMITEX NON WOVEN COMPOSITIONS

NON WOVEN FABRIC	ABRASIVE GRAINS	BINDERS
Polyamide 66 (Nylon Fiber)	Silicon Carbide	Phenolic
	Aluminum Oxide	Acrylic
	Feldspar	Epoxy
Polyester (For selected hand scouring pads)	Garnet	Coupling agents
	Calcium Carbonate	Lubricants
	Talc	Polyurethane

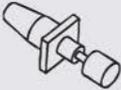
Performance Requirement

- Cutting action
- Compression resistance
- Finish generation
- Elongation resistance
- Product life
- Water proof



APPLICATIONS OF NON WOVEN ABRASIVES

INDUSTRIAL APPLICATIONS		CONSUMER APPLICATIONS	
METAL WORKING	WOOD WORKING	HOME CARE	HOSPITALITY
Cleaning	Denibbing/Defuzzing	Floor cleaning pads	Kitchen scrub pads
Deburring	Sealer/Lacquer sanding		
Blending	Profile Sanding		
Polishing/Finishing	Floor Sanding		

INDUSTRIAL PROCESS	MACHINES	NON WOVEN PRODUCTS
<p>DEBURRING: Removal of burrs and sharp edges created by heavy duty actions like abrasive grinding, cutting, shearing etc., without altering the geometry of the base material</p> <p>BLENDING: Levelling off surface imperfections created by welding, abrasive grinding and shearing operations</p> <p>SURFACE CONDITIONING: Preparing the surfaces for painting, electroplating etc.,</p> <p>POLISHING AND FINAL FINISHING: Generating aesthetic and functional finishes on metals, plastics, wood etc.,</p>	<div style="display: flex; flex-direction: column; align-items: center;">  <p>ANGLE GRINDERS: Deburring, Blending, Surface Conditioning</p>  <p>STRAIGHT DIE GRINDERS: Deburring, Blending</p>  <p>RIGHT ANGLE DIE GRINDERS: Deburring, Blending, Surface Conditioning</p>  <p>BENCH GRINDERS: Surface Conditioning, Finishing</p>  <p>CENTERLESS POLISHING MACHINE Surface Conditioning, Finishing</p> </div>	<div style="display: flex; flex-direction: column; align-items: center;">  <p>Unitised discs</p>  <p>Shaft mounted flap wheels</p>  <p>Quick change discs</p>  <p>Unitized wheels</p>  <p>Convolute wheels</p> </div>

UNDERSTANDING THE PICTOGRAMS

CUMI's versatile range of products come in various forms. The pictograms below are indicative of the same.

FORMS



SHEETS



ROLLS



FLAP WHEELS

MACHINES



ANGLE GRINDER



BACK STAND
GRINDER



DIE GRINDER



DRILLING MACHINE



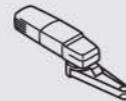
FLEXIBLE SHAFT
GRINDER



FLOOR STANDING
GRINDER



HAND SANDING



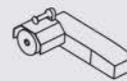
HAND TOOL BELT
GRINDER



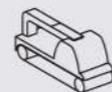
ORBITAL SANDER



PARQUET SANDER



SATIN FINISHING
MACHINE



VIBRATION SANDER

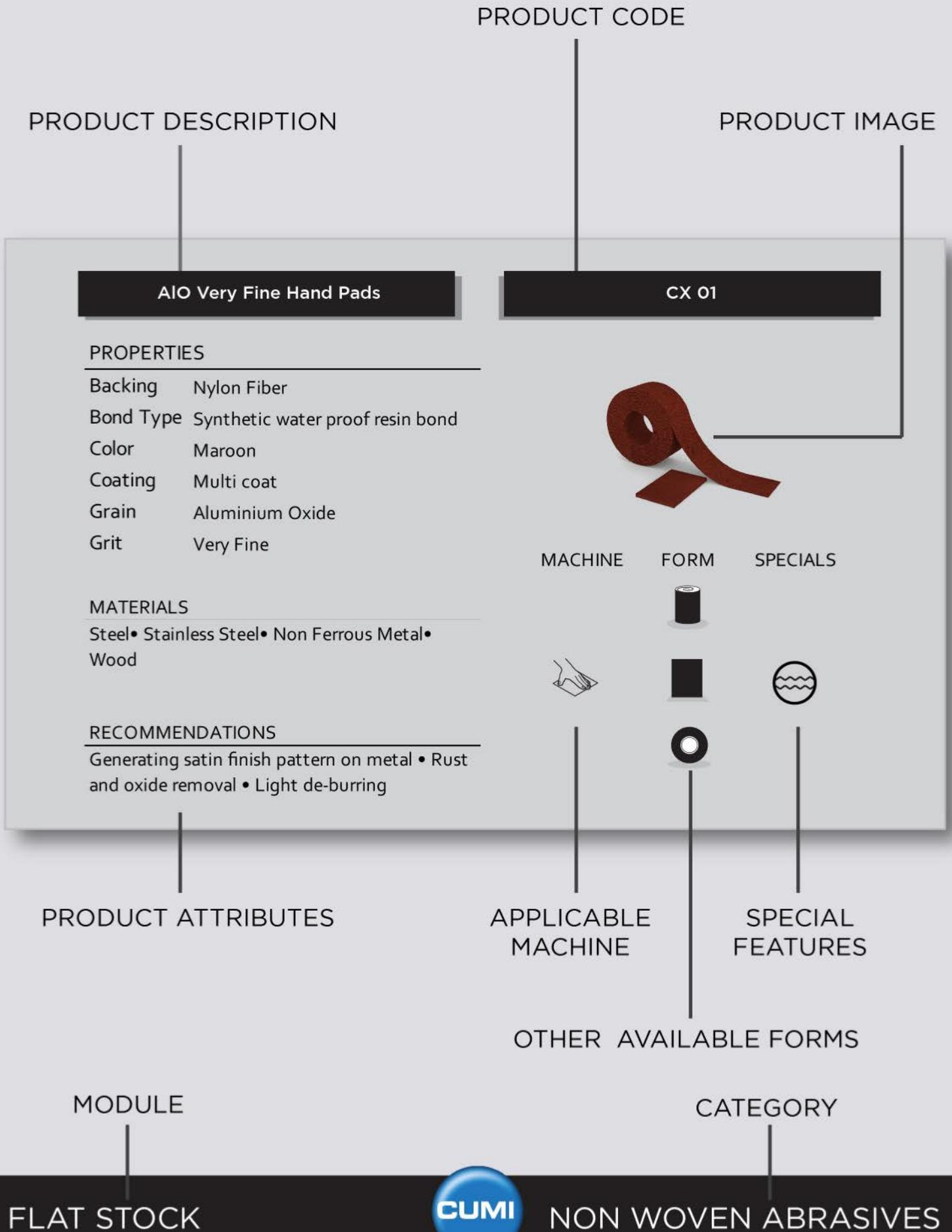
SPECIALITY



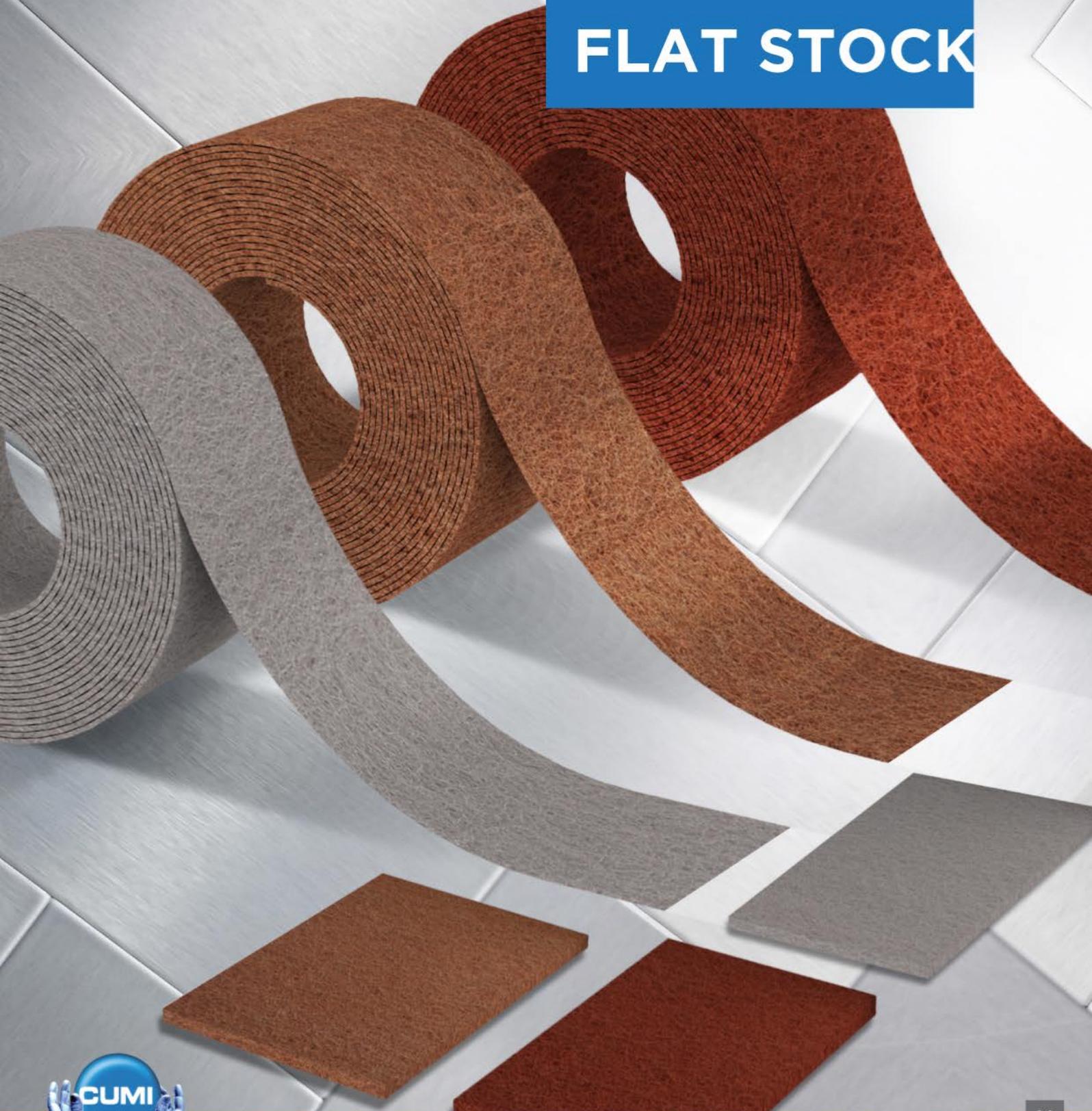
ANTI-CLOG

Products with this pictogram consists of a stearate lubricant which minimizes the clogging effect during sanding inturn reducing friction and pro-longing life.

HOW TO READ THE BROCHURE



FLAT STOCK



FLAT STOCK (HAND PADS & ROLLS)

- Cumitex offers wide range of nonwoven flat stock (hand pads & rolls) for free sanding and machine sanding operations.
- Made from premium quality nylon web, coated with high performance synthetic abrasive grains and water proof resin bond system, these products do not load / clog and can be used with water and polishing compounds.
- Cumitex range of flat stock are ideal for cleaning, rust removal, generating decorative finishes on brass, carbon steel, aluminium, stainless steel and wood.

PRODUCT CODE EXPLANATION

CUMI CODE	GRAIN	GRIT	TYPE	COLOR
CX 01	Aluminium Oxide	Very Fine	Flexible	Maroon
CX 02	Aluminium Oxide	Medium	Stiff	Tan
CX 03	Silicon Carbide	Micro Fine	Flexible	Light Grey
CX 04	Silicon Carbide	Ultra Fine	Flexible	Dark Grey
CX 05	Aluminium Oxide	Fine	High Strength	Maroon
CX 06	Aluminium Oxide	Fine	High Strength	Green
CUMITEX SUPER	Aluminium Oxide	Very Fine	Flexible	Maroon
CUMITEX GP MAROON	Aluminium Oxide	Very Fine	Highly Flexible	Maroon
CUMITEX GP GREEN	Aluminium Oxide	Medium	Highly Flexible	Green
CUMITEX MD9650	Aluminium Oxide	Very Fine	Flexible	Green
CUMITEX ECO GREEN	Feldspar	Very Fine	Flexible	Green
CUMITEX HD WHITE	Feldspar	Micro Fine	Flexible	White

CUMITEX PRODUCT SPECTRUM

AGGRESSIVE				FINISH		
CX 02	CX 05	CX 01	Super	CX 04	CX 03	HD WHITE
	CX 06		GP Maroon			
			GP Green			
			MD 9650			
			Eco Green			



APPLICATION GUIDE

CODE	PRODUCT DESCRIPTION	MATERIAL									
		Steel	Stainless Steel	Non Ferrous Metal	Wood	Wall	Ceramic	Paint	Varnish	Plastic	Kitchen Scrub Pads
CX 01	AIO Very Fine Hand Pads	•	•	•	•						
CX 02	AIO Medium Hand Pads	•	•	•	•	•	•				
CX 03	SiC Ultra Fine Hand Pads	•						•	•	•	
CX 04	SiC Micro Fine Hand Pads	•						•	•	•	
CX 05	AIO Fine Hand Pads	•	•		•	•					
CX 06	AIO Fine Hand Pads	•	•		•	•					
CUMITEX SUPER	AIO Very Fine Hand Pads	•	•	•	•						
CUMITEX GP MAROON	AIO Very Fine Hand Pads	•	•	•	•						
CUMITEX GP GREEN	AIO Very Fine Hand Pads	•	•	•	•						
CUMITEX MD9650	Alo Very Fine hand scouring pads										•
CUMITEX ECO GREEN	Feldspar Very Fine hand scouring pads										•
CUMITEX HD WHITE	Non Abrasive hand pads						•	•	•	•	

Hand Pads Size		
Available Size	(mm)	inch
Width x Length	152 x 229	6 X 9

Roll Size				
Available Roll Size	mm		inch	
	Min	Max	Min	Max
Width	152	1016	6	40

GRIT	GRIT RANGE
COARSE	60 - 80
MEDIUM	100 - 120
FINE	150 - 220
VERY FINE	240 - 400
ULTRA FINE	600 - 800
MICROFINE	1000 - 1200

AIO Very Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • Wood

RECOMMENDATIONS

Generating satin finish pattern on metal • Rust and oxide removal • Light de-burring

CX 01



MACHINE

FORM

SPECIALS



AIO Medium Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Tan
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • Wood • Ceramics • Wall

RECOMMENDATIONS

Generating coarse finish pattern on metal • Sanding of ceramic and sanitary wares • Light de-burring

CX 02



MACHINE

FORM

SPECIALS



SiC Ultra Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Grey
Coating	Single Coat
Grain	Silicon Carbide
Grit	Ultra Fine

MATERIALS

Stainless Steel • Paint • Varnish • Plastic

RECOMMENDATIONS

Generating glossy finish on metals •
Architectural metal works • Auto after and
paint shop

CX 03



MACHINE



FORM



SiC Micro Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Grey
Coating	Single Coat
Grain	Silicon Carbide
Grit	Micro Fine

MATERIALS

Stainless Steel • Paint • Varnish • Plastic

RECOMMENDATIONS

Generating glossy finish on metals •
Architectural metal works • Auto after and
paint shop

CX 04



MACHINE



FORM



AIO Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

MATERIALS

Steel • Stainless Steel • Wood • Wall

RECOMMENDATIONS

Aggressive cutting action • Creates coarse to satin finish on metals

AIO Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Green
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

MATERIALS

Steel • Stainless Steel • Wood • Wall

RECOMMENDATIONS

Aggressive cutting action • Creates coarse to satin finish on metals

CX 05



MACHINE



FORM



SPECIALS



CX 06



MACHINE



FORM



SPECIALS



AIO Very Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Single coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • Wood

RECOMMENDATIONS

General purpose cleaning • Rust and oxide removal • Generating satin finish pattern

CUMITEX SUPER



MACHINE

FORM



AIO Very Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Single coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal • Wood

RECOMMENDATIONS

Excellent finish and Ra values on metal • Orbital sanders • Wood sanding

CUMITEX GP MAROON



MACHINE

FORM



AIO Very Fine Hand Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Green
Coating	Single Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIAL

Steel • Stainless Steel • Non Ferrous Metal • Wood

RECOMMENDATIONS

Excellent finish and Ra values on metal • Orbital Sanders • Wood sanding

CUMITEX GP GREEN



MACHINE

FORM



AIO Very Fine Hand Scouring Pads

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Green
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Kitchen utensils (Ferrous & Non - Ferrous)

RECOMMENDATIONS

Hand scouring application for tough stain removal

CUMITEX MD 9650



MACHINE

FORM



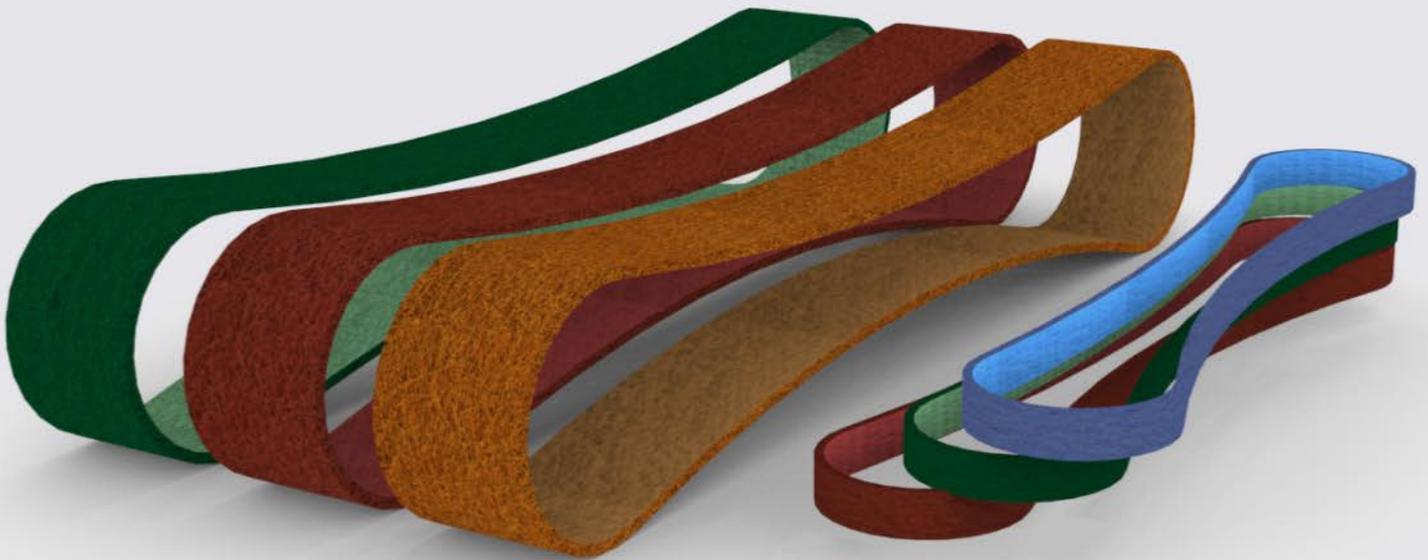
SCM BELTS



SCM BELTS

- Cumitex SCM Belts are made out of a strong non-woven structure to produce aggressive & consistent cutting action
- SCM Belts are waterproof, solvent resistant & can be used with lubricants
- They are Ideal for weld blending, light deburring & removal of surface imperfections

AVAILABLE SIZES	mm	inch
Width x Length	6 x 520	¼ x 20 ½
	19 x 520	¾ x 20 ½
	13 x 610	½ x 24
	50 x 2000	2 x 78
	100 x 2500	4 x 98
	150 x 2500	6 x 98
	100 x 3000	4 x 118
Other sizes available on request		



AIO Coarse Low Stretch SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Brown
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Coarse

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

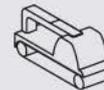
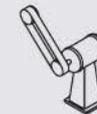
RECOMMENDATIONS

For weld blending

CX LSC CRS



MACHINE



AIO Medium Low Stretch SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

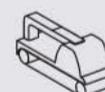
RECOMMENDATIONS

For light deburring

CX LSC MED



MACHINE



AIO Fine Low Stretch SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Green
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

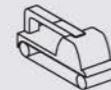
RECOMMENDATIONS

For finishing

CX LSC FIN



MACHINE



AIO Very Fine Low Stretch SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Blue
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

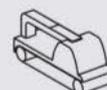
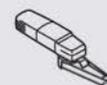
RECOMMENDATIONS

For finishing

CX LSC VFN



MACHINE



AIO Coarse SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Brown
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Coarse

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

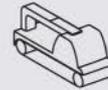
RECOMMENDATIONS

For weld blending

CX SCB CRS



MACHINE



AIO Medium SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

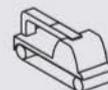
RECOMMENDATIONS

For light deburring

CX SCB MED



MACHINE



AIO Very Fine SCM Belt

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Blue
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

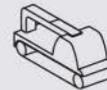
RECOMMENDATIONS

For finishing

CX SCB VFN



MACHINE



WHEELS



WHEELS

- Cumitex range of unitized, polishing & convolute wheels are an ideal choice for applications demanding surface finish
- Made by compressing layers of non woven abrasive materials, these wheels are the perfect choice for mild stock removal, deburring, blending, cleaning, finishing and polishing applications
- Cumitex range of wheels are available across various densities to suit customer needs

CUMITEX UNITIZED WHEELS	DENSITIES	SIZES: (diameter x thickness)	
		mm	inch
	1 - AF	100 x 25	4 x 1
	3 - AF	100 x 50	4 x 2
	5 - AF	150 x 25	6 x 1
	8 - AF	150 x 50	6 x 2
		200 x 25	8 x 1
		200 x 50	8 x 2

Other sizes and densities available on request

CUMITEX POLISHING WHEELS	DENSITIES	SIZES: (diameter x thickness)	
		mm	inch
	1 - AF	100 x 25	4 x 1
	3 - AF	100 x 50	4 x 2
	5 - AF	150 x 25	6 x 1
	8 - AF	150 x 50	6 x 2
		200 x 25	8 x 1
		200 x 50	8 x 2

Other sizes and densities available on request

CUMITEX CONVOLUTE WHEELS	DENSITIES	SIZES: (diameter x thickness)	
		mm	inch
		150 x 25 x 25	6 x 1 x 1
	7-SF 7-AM	150 x 50 x 25	6 x 2 x 1
	8-SF 8-AM	200 x 13 x 75	8 x ½ x 3
	9-SF 9-AM	200 x 25 x 75	8 x 1 x 3
		200 x 50 x 75	8 x 2 x 3
		200 x 75 x 75	8 x 3 x 3

Other sizes and densities available on request

AIO Unitized Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Red
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

MATERIALS

Carbon Steel • Brass • Copper • Plastic

RECOMMENDATIONS

- Ideal product for Blend & Polish applications
- Removes surface defects and imparts decorative finish in single operation



MACHINE



AIO Polishing Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Grey
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

MATERIALS

Carbon Steel • Stainless Steel • Brass • Copper • Aluminium

RECOMMENDATIONS

- Generates unique satin decorative finish on metals
- Right choice for kitchen, cutlery and surgical equipments polishing



MACHINE



SiC Convolute Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Grey
Coating	Multi Coat
Grain	Silicon Carbide
Grit	Fine

MATERIALS

Steel • Stainless Steel • Titanium • Plastic

RECOMMENDATIONS

• Suitable for blending and polishing hard metals & alloys like Titanium, SS and polishing of dry cell battery bottoms



MACHINE



AlO Convolute Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Grey
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Steel • Stainless Steel • Titanium • Plastic

RECOMMENDATIONS

• Ideal product for heavy and light deburring of auto components and other parts



MACHINE



DISCS



CUMITEX UNITIZED DISCS

- Unitized wheels fitted with back- up pads suitable for use in angle grinders
- Perfect for blending scratch lines created by coated abrasive flap discs and fiber discs
- Ideal product for Blend and Polish applications on Brass, Copper and Carbon steel

AIO Unitized Discs

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Red
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

DENSITIES

1 - AF • 3 - AF • 5 - AF • 8 -AF



MACHINE



AVAILABLE SIZE	mm	inch
Diameter x Thickness x Bore	100 x 13 x 16	4 x ½ x 5/8



CUMITEX QUICK CHANGE DISCS

- Made out of a strong non woven structure to produce aggressive and consistent cutting action
- Waterproof and can be used with lubricants
- Ideal for weld blending, light deburring and removal of surface imperfections
- Color coded for easy grit identification

AVAILABLE SIZE	mm	inch
Diameter	50	2
	75	3
*Other sizes available on request		

CUMITEX range of quick change discs are available in both Type R & Type S

TYPE R

Roll on/ roll off style threaded bush

Bush made of plastic



AIO Coarse Discs

TYPE S

Turn on/ Turn off style bush

Bush made of metal



CX SCD CRS

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Brown
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Coarse



MACHINE



MATERIAL

Stainless Steel • Non Ferrous Metal

RECOMMENDATIONS

For weld blending

Alo Medium Discs

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Maroon
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Stainless Steel • Non Ferrous Metal

RECOMMENDATIONS

For light deburring

CX SCD MED



MACHINE



Alo Fine Discs

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Color	Blue
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine

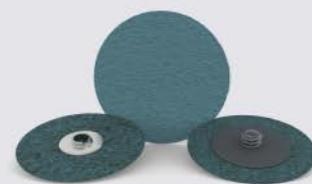
MATERIALS

Stainless Steel • Non Ferrous Metal

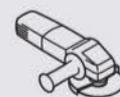
RECOMMENDATIONS

For finishing

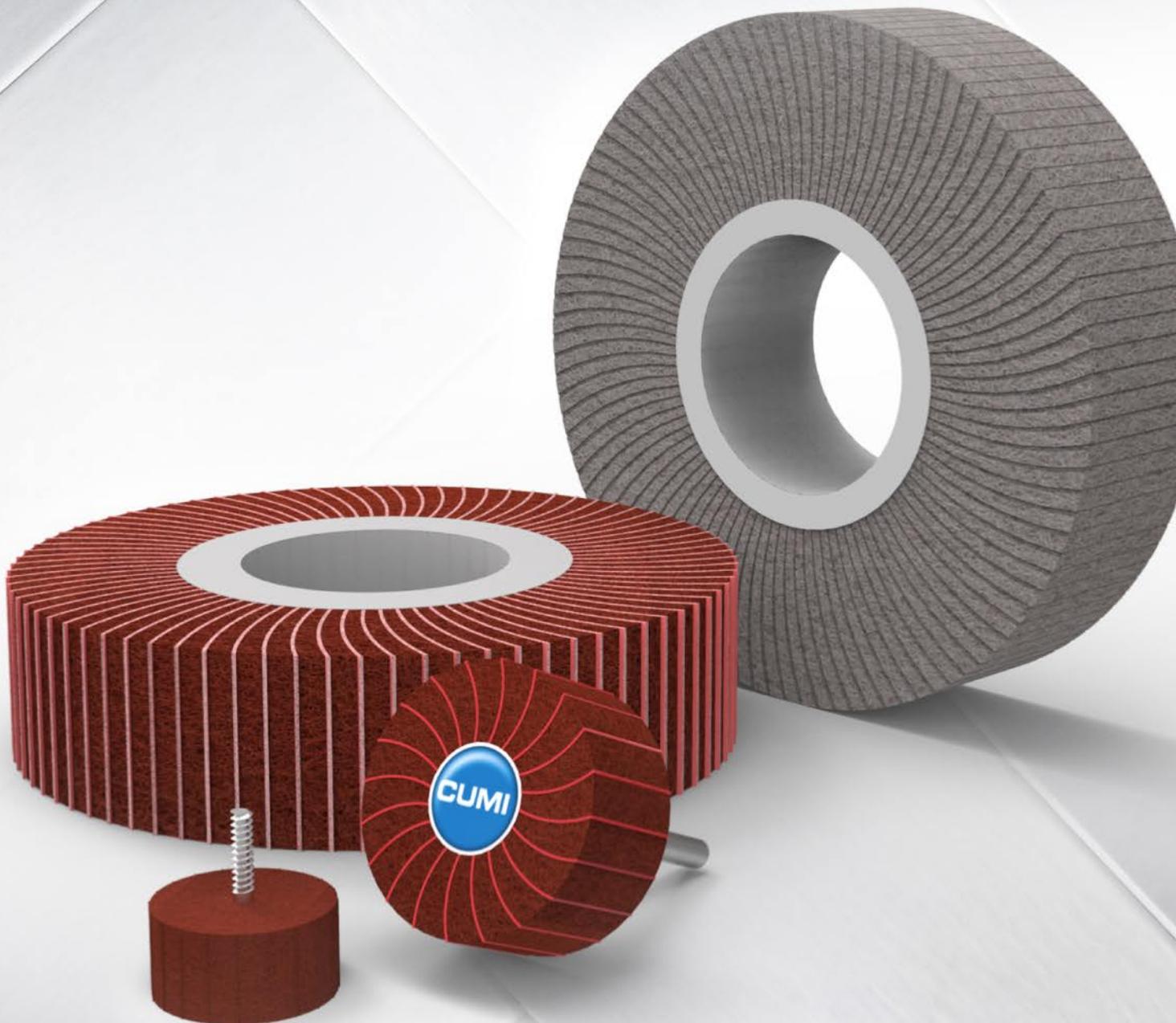
CX SCD FIN



MACHINE



FLAP WHEELS



FLAP WHEELS

•CUMITEX range of flap wheels are made by radially bonding non-woven abrasive layers over a central core. In case of combi wheels alternative layers of non woven & coated are used.

•CUMITEX flap wheels are suitable for light finishing, polishing, imparting brush, smoky and satin finish on metals.

CUMITEX SHAFT MOUNTED FLAP WHEELS	GRITS	SIZES: (diameter x thickness x spindle)	
		mm	inch
	Combi		
	1.AIO Very Fine + Grit 120 AIO coated	50 x 25 x 6	2 x 1 x ¼
	2.AIO Medium + Grit 60 AIO coated	50 x 50 x 6	2 x 2 x ¼
	Nonwoven		
	1. AIO Very Fine	75 x 50 x 6	3 x 2 x ¼
	2. AIO Medium	100 x 50 x 6	4 x 2 x ¼

* Other sizes available on request

CUMITEX FLAP WHEELS	GRITS	SIZES: (diameter x thickness x inner dia)	
		mm	inch
	Combi		
	1.AIO Very Fine + Grit 120 AIO coated	150 x 25 x 50	6 x 1 x 2
	Nonwoven		
	1.AIO Medium	150 x 50 x 50	6 x 2 x 2
	2.AIO Very Fine	200 x 25 x 75	8 x 1 x 3
	3.SiC Ultra Fine	200 x 50 x 75	8 x 2 x 3

* Other sizes available on request



AIO Medium Combi Shaft Mounted Flap Wheel

CX02 / XG 542

PROPERTIES

Backing	Nylon Fiber / Cotton - X weight backing
Bond Type	Resin
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium / G80



MACHINE



AIO Very Fine Combi Shaft Mounted Flap

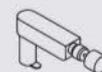
CX01 / XG 542

PROPERTIES

Backing	Nylon Fiber / Cotton - X weight backing
Bond Type	Resin
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine / G120



MACHINE



MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

AIO Very Fine Shaft Mounted Flap Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

CX01



MACHINE



AIO Medium Shaft Mounted Flap Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

CX02



MACHINE



AIO Very Fine Combi Flap Wheel

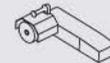
CX01 / XG542

PROPERTIES

Backing	Nylon Fiber / Cotton - X weight backing
Bond Type	Resin
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Fine



MACHINE



MATERIALS

Steel • Stainless Steel • Non Ferrous Metal



AIO Medium Flap Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Medium

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

CX 02



MACHINE



AIO Very Fine Flap Wheel

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Coating	Multi Coat
Grain	Aluminium Oxide
Grit	Very Fine

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal

CX01



MACHINE



SiC Ultra Fine Flap Wheel

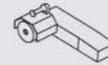
CX04

PROPERTIES

Backing	Nylon Fiber
Bond Type	Synthetic water proof resin bond
Coating	Multi Coat
Grain	Silicon Carbide
Grit	Ultra Fine



MACHINE



MATERIALS

Steel • Stainless Steel • Non Ferrous Metal