



COATED ABRASIVES

ENGINEERING
SURFACES

PRODUCT
CATALOGUE



ABOUT US

Carborundum Universal Limited (CUMI) is part of the US\$ 4.8 billion conglomerate Murugappa Group. The company pioneered the manufacture of Coated Abrasives and Bonded Abrasives in India. In addition, we also manufacture Super Abrasives, Super Refractories, Electro Minerals. Industrial Ceramics. Ceramic Fiber and Power Tools.

CUMI manufactures the complete range of Vitrified, Resinoid and Rubber Bonded Products for various industrial applications; Cylindrical Grinding, Centerless Grinding, Surface Grinding, Face Grinding and complete range of Coated Products: Abrasive Paper, Fibre Discs, Rolls, Flap Discs, Non-Woven and Flap Wheels.

Our products address various type of industries: Automobile OEM, Auto Components, Steel, Bearing, Foundry, General Engineering, Aerospace and Wood. We also have unique products for Ball Grinding, Ball Lapping, Roll Grinding etc.

CUMI's strong R&D and Application support team provide complete grinding system engineering and technical support to customers. With strategic global alliances, state of the art manufacturing facilities and sales support centres that span across North America, Europe, Russia, South Africa, India, China and Australia, CUMI has achieved a reputation for quality and innovation.

CUMI specializes and develops specific products to meet the requirements of customers and markets.

CUMI



BONDED
ABRASIVES



COATED
ABRASIVES



NON WOVEN
ABRASIVES



CUTTING AND
GRINDING WHEELS



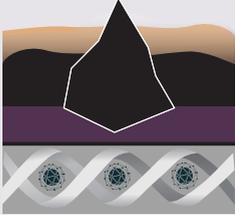
DIAMOND
TOOLS



POWER
TOOLS



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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.



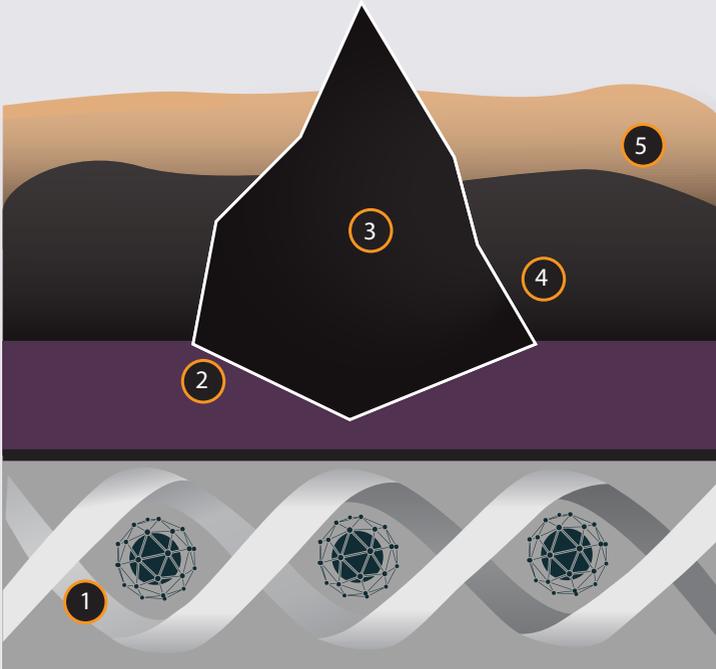
With state-of-the art Peter Schwabe Maker, CUMI produces the widest range of high quality coated abrasive products for various applications meeting stringent customer demands.



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 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

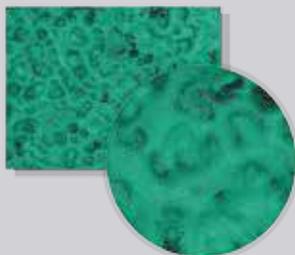
5. TOP COAT *OPTIONAL

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

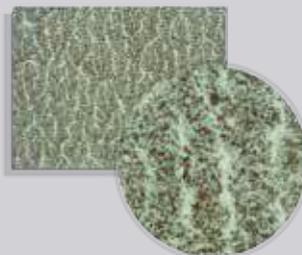
a. Anti-clogging coat : This comprises of a stearate coating which acts as a lubricant that prevents clogging by reducing friction thereby increasing life of the product

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.



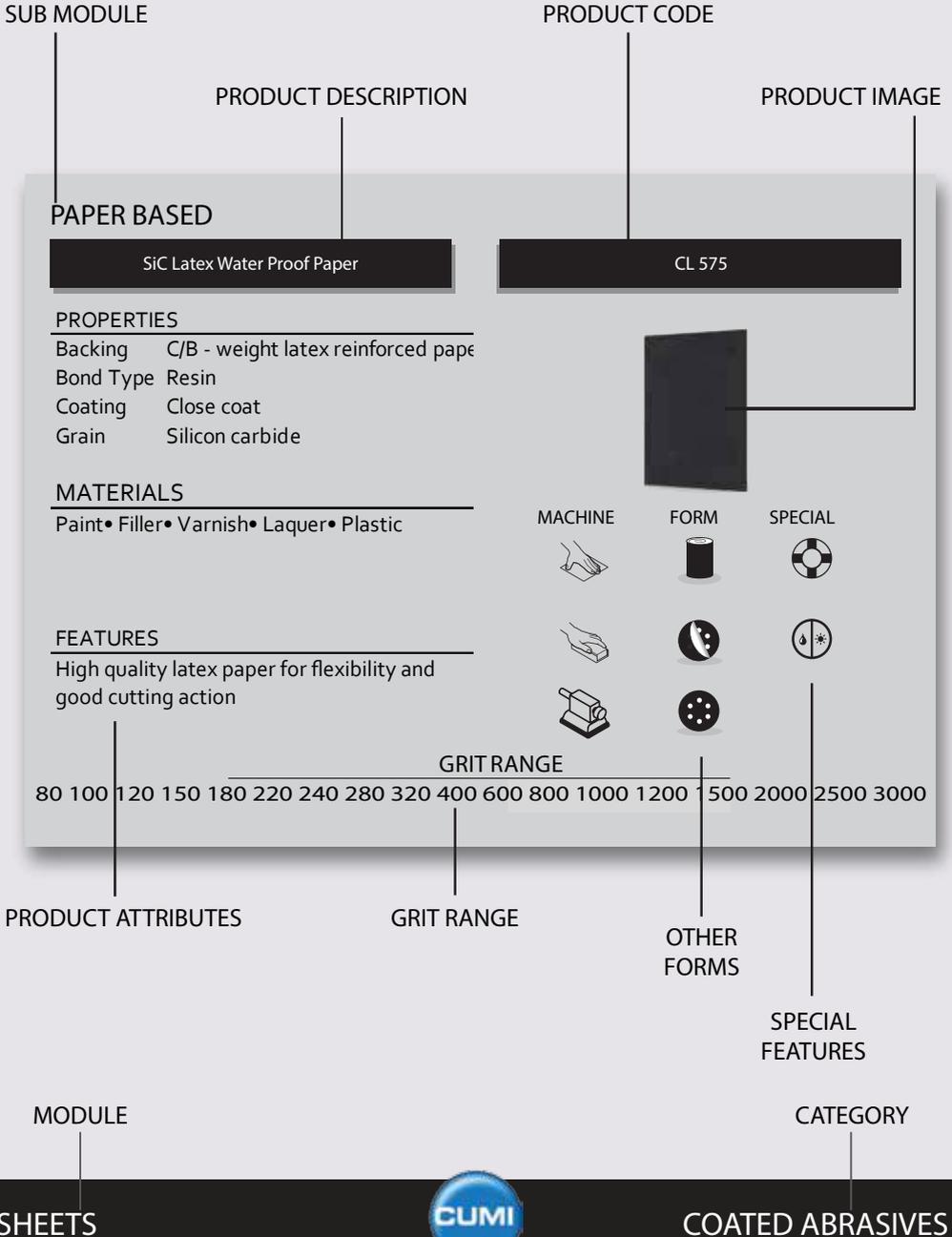
SUPER SIZE

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
<p>Paper</p> <p>A - 95 gsm B - 105 gsm C - 110 gsm D - 150 gsm E - 220 gsm F - 270 gsm G - 350 gsm</p> <p>Fiber</p> <p>F - 0.6mm Fiber V - 0.8/0.85/ 0.95mm Fiber T - Natural Fiber</p> <p>Cloth</p> <p>P - Plain weave Cotton / Polycotton J - Cotton / Polycotton X - Cotton / Polycotton Y - Polycotton / Polyester</p> <p>Film</p> <p>L - Film</p>		<p>1 - Glue / Glue 2 - Resin / Glue 3 - Alkyd / Alkyd 4 - Resin / Alkyd 5 - Resin / Resin 6 - UF / UF 7 - UF / Glue</p>	<p>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</p>	

HOW TO READ THE BROCHURE





COATED ABRASIVES
SHEETS

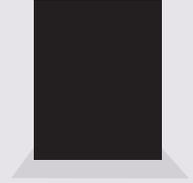
SHEETS



COATED ABRASIVES

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		FILM
CL 575	DR 551	CR 121	JF 565	PS 502	LF 567
CL 567	CR 661	CR 111	XS 542	PG 121	
CP 547	DV/CV 371		JG 502		

APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL								
				Steel	Stainless Steel	Non Ferrous Metal	Wood	Wall	Paint	Filler	Varnish • Lacquer	Plastic
PAPER	CL 575	SiC Latex Water Proof Paper	●						●	●	●	●
	CL 567	AIO Latex Water Proof Paper	●				●		●	●	●	●
	CP 547	AIO Stearate Paper	◐				●	●		●		
	DR 551	CUMI White Paper	◐	●			●	●	●	●		
	CR 661	AIO Cabinet Paper	◐				●	●				
	DV/CV 371	SiC Water Proof Paper	●	●	●	●	●	●	●	●	●	●
	CR 121	Emery Paper	●	●		●						
	CR 111	Flint Paper	●				●	●				
	CLOTH	JF 565	AIO Flexible Cloth Sheet	◐	●	●		●		●		●
XS 542		X-weight AIO Cloth Sheet	◐	●			●		●			
JG 502		J-weight AIO Cloth Sheet	◐	●			●		●			
PS 502		Plain weave AIO Cloth Sheet	◐	●			●		●			
PG 121		Emery Cloth Sheet	●	●		●						
FILM	LF 567	AIO Film Sheet	●	●	●	●			●	●		

● CLOSE COAT

◐ SEMI-OPEN COAT

○ OPEN COAT

PAPER BASED

SIC Latex Water Proof Paper

CL 575

PROPERTIES

Backing C/B - weight latex reinforced paper
 Bond Type Resin
 Coating Close coat
 Grain Silicon Carbide



MATERIALS

Paint • Filler • Varnish • Laquer • Plastic

MACHINE

SPECIAL



FEATURES

High quality latex paper for flexibility and good cutting action

GRIT RANGE

80 100 120 150 180 220 240 280 320 400 600 800 1000 1200 1500 2000 2500 3000

AIO Latex Water Proof Paper

CL 567

PROPERTIES

Backing C/B- weight latex reinforced paper
 Bond Type Resin
 Coating Close coat
 Grain Premium Aluminium Oxide



MATERIALS

Wood • Paint • Filler • Varnish • Laquer • Plastic

MACHINE

FORM

SPECIAL



FEATURES

Premium Aluminium Oxide grains for quick cutting action

GRIT RANGE

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

PAPER BASED

AIO Stearate Paper

PROPERTIES

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

MATERIALS

Wood • Wall • Filler

FEATURES

Stearate coating for anti-clogging effect

CP 547



MACHINE



FORM



SPECIAL



GRIT RANGE

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

CUMI White Paper

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

DR 551



MACHINE



FORM



SPECIAL



GRIT RANGE

40 50 60 80 100 120 150 180 220

PAPER BASED

AIO Cabinet Paper

CR 661

PROPERTIES

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



MATERIALS

Wood•Wall

MACHINE



FEATURES

Semi-open coat for minimal clogging



GRIT RANGE

50 60 80 100 120 150 180 220

SiC Water Proof Paper

DV / CV 371

PROPERTIES

Backing Wet Strength D / C - 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

MACHINE

FORM

SPECIAL



FEATURES

Special bond provides combination of flexibility & strength



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

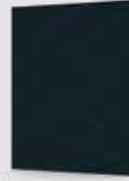
Backing C - weight paper
 Bond Type Glue
 Coating Close coat
 Grain Emery

MATERIALS

Steel • Non Ferrous Metal

FEATURES

Modified bond adheres to contours



MACHINE



GRIT RANGE

50 60 80 100

Flint Paper

CR 111

PROPERTIES

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

MATERIALS

Wood • Wall

FEATURES

Good quality kraft paper for dry sanding



MACHINE



GRIT RANGE

36 50 60 80 100 120 150 180

CLOTH BASED

AIO Flexible Cloth Sheet

PROPERTIES

Backing J - weight polycotton
 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

JF 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

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.

GRIT RANGE

40 60 80 100 120 150 180 220 240 320 400

JG 502



MACHINE

FORM



PS 502



MACHINE

FORM



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



COATED ABRASIVES ROLLS

ROLLS



COATED ABRASIVES

ROLLS

CUMI's paper and cloth backed rolls find extensive use in cleaning, de-rusting and finishing various types of material. These rolls are manufactured using either Emery, Aluminium Oxide, Silicon Carbide grains with specially formulated resins and compatible backing suited for optimum performance in wood, leather, plastic, metal, rubber and glass industries. Coated abrasive rolls are designed for fast and easy sanding of various surfaces and can be torn to exact lengths as needed.



ADVANTAGES OF CUMI ROLLS

- Increased durability
- Adheres to contour sanding
- Good tearable properties
- Highly flexible products for special applications



APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL						
				Steel	Stainless Steel	Non Ferrous Metal	Wood	Paint	Filler	Leather
PAPER	FT 153	White Buffing Paper Roll	●							●
	EP 243	Brown Buffing Paper Roll	●							●
	E 601 / 401	SiC Paper Roll	●							●
	EP / DP 558	Green Paper Roll	○				●	●	●	
	CP 558	Green Paper Roll	○				●	●	●	
	FP / EP 544	AIO Paper Roll	◐	●			●	●		
CLOTH	XF 569	X- Weight Premium AIO Abrasive Cloth Roll	●	●	●		●			●
	XF 567	X- Weight Premium AIO Industrial Cloth Roll	●	●	●		●			●
	JF 565	J- Weight AIO Flexible Shop Roll	◐	●	●	●	●			●
	XG 542	X- Weight AIO Industrial Cloth Roll	●	●	●		●			●
	XS 542	X- Weight AIO Cloth Roll	◐	●			●	●		
	JG 243	J- Weight AIO Shop Roll	●	●				●		
	JG 502	J- Weight AIO Cloth Roll	◐	●			●	●		
	PS 502	Plain Weave AIO Cloth Roll	●	●			●		●	
PG 121	Emery Cloth Roll	●	●	●						
CLOTH (For Flap Disc)	XD 599	Y- Weight Ceramic Cloth Roll	◐	●	●					
	YS 588	Y- Weight Zirconia Cloth Roll	◐	●	●					
	XS 588	X- Weight Zirconia Cloth Roll	◐	●	●	●	●			
	XD 589	X- Weight Zirconia Cloth Roll	◐	●	●	●	●			
	XS 543	X- Weight AIO Cloth Roll	◐	●		●	●			
FILM BASED	AF 561	Film Based Roll	◐	●	●	●	●			

● CLOSE COAT

◐ SEMI-OPEN COAT

○ OPEN COAT

PAPER BASED

White Buffing Paper Roll

FT 153

PROPERTIES

Backing F - weight paper
 Bond Type Glue
 Coating Close coat
 Grain White Aluminium Oxide

MATERIALS

Leather

FEATURES

Friable grains for scratch free finish



MACHINE



GRIT RANGE

120 150 180 220 240 320 400

Brown Buffing Paper Roll

EP 243

PROPERTIES

Backing E - weight paper
 Bond Type Resin
 Coating Close coat
 Grain Aluminium Oxide

MATERIALS

Leather

FEATURES

Synthetic resin bond specially designed for hard & damp leather



MACHINE



GRIT RANGE

100 120 150 180 220 240 320 400

PAPER BASED

SiC Paper Roll

E 601 / 401

PROPERTIES

Backing E - weight paper
 Bond Type Resin
 Coating Close coat
 Grain Silicon Carbide



MATERIALS

Leather

MACHINE



FEATURES

Premium Silicon Carbide grain ensures excellent finish on leather

GRIT RANGE

80 100 120 150 180 220 240 320 400 500 600 800

Green Paper Roll

EP / DP 558

PROPERTIES

Backing E / D - weight paper
 Bond Type Resin
 Coating Open coat
 Grain White Aluminium Oxide



MATERIALS

Wood • Paint • Filler

MACHINE

FORM



FEATURES

Stiff paper for faster cutting action with smooth finish

GRIT RANGE

40 60 80 100 120 150

PAPER BASED

Green Paper Roll

CP 558

PROPERTIES

Backing C - weight paper
 Bond Type Resin
 Coating Open coat
 Grain White Aluminium Oxide

MATERIALS

Wood • Paint • Filler

FEATURES

Flexible paper for faster cutting action with smooth finish



MACHINE

FORM



GRIT RANGE

36 60

AIO Paper Roll

FP / EP 544

PROPERTIES

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

MATERIALS

Steel • Wood • Paint

FEATURES

Durable paper for general purpose sanding



MACHINE

FORM



GRIT RANGE

24 36 40 50 60 80 100 120 150

CLOTH BASED

X- weight Premium AIO Abrasive Cloth Roll

XF 569

PROPERTIES

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

MATERIALS

Steel • Stainless Steel • Wood • Leather

FEATURES

For applications demanding high cut rate



MACHINE

FORM



GRIT RANGE

60 80 100 120 150 180 220 320 400 600



ROLLS



COATED ABRASIVES

CLOTH BASED

X- Weight Premium AIO Industrial Cloth Roll

XF 567

PROPERTIES

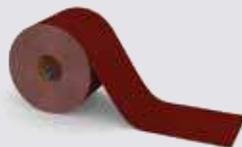
Backing X - weight cotton
 Bond Type Resin
 Coating Close coat
 Grain Premium Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Wood • Leather

FEATURES

Premium grains with flexible cotton backing
 for aggressive cut & high performance



MACHINE

FORM



GRIT RANGE

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

X- Weight AIO Industrial Cloth Roll

XG 542

PROPERTIES

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

MATERIALS

Steel • Stainless Steel • Wood • Leather

FEATURES

Heat resistant bond provides good
 life & finish



MACHINE

FORM



GRIT RANGE

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

CLOTH BASED

J- Weight AIO Flexible Shop Roll

JF 565

PROPERTIES

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



MATERIALS

Steel • Stainless Steel • Non Ferrous Metal
 Wood • Leather

MACHINE FORM



FEATURES

Flexible cloth assists in tearability

GRIT RANGE

60 80 100 120 150 180 220 240 280 320 400

X- Weight AIO Cloth Roll

XS 542

PROPERTIES

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



MATERIALS

Steel • Wood • Paint

MACHINE FORM



FEATURES

Modified bond system for extra durability

GRIT RANGE

50 60 80 100 120

CLOTH BASED

J- Weight AIO Shop Roll

JG 243

PROPERTIES

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



MATERIALS

Steel • Paint

MACHINE

FORM



FEATURES

Special bond adheres to profiles

GRIT RANGE

36 40 50 60 80 100 120 150 180 220 240 280 320 400 600

J- Weight AIO Cloth Roll

JG 502

PROPERTIES

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



MATERIALS

Steel • Wood • Paint

MACHINE

FORM



FEATURES

Economical product for all purpose general sanding

GRIT RANGE

50 60 80 100 120

CLOTH BASED

Plain weave AIO Cloth Roll

PS 502

PROPERTIES

Backing Plain weave poly cotton
 Bond Type Resin
 Coating Close coat
 Grain Eco Aluminium Oxide

MATERIALS

Steel • Wood • Paint

FEATURES

Plain weave poly cotton cloth for extra flexibility and durability



MACHINE

FORM



GRIT RANGE

40 60 80 100 120 150 180 220 240 320 400

Emery Cloth Roll

PG 121

PROPERTIES

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

MATERIALS

Steel • Non Ferrous Metal

FEATURES

Light weight backing with soft bond for good finish



MACHINE

FORM



GRIT RANGE

24 36 50 60 80 100 120 150 180 220

X- Weight Ceramic Cloth Roll

PROPERTIES

Backing X - 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

XD 599

TOP COAT



MACHINE

SPECIAL



Y- Weight Zirconia Cloth Roll

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

TOP COAT



MACHINE

FORM

SPECIAL



CLOTH BASED (For Flap Disc)

X- Weight Zirconia Cloth Roll

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

40 60 80 120

X- Weight Zirconia Cloth Roll

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

XS 588

TOP COAT



MACHINE



FORM



SPECIAL



XD 589



MACHINE



FORM



CLOTH BASED (For Flap Disc)

X- Weight AIO Cloth Roll

XS 543

PROPERTIES

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



MATERIALS

Steel • Stainless Steel • Non Ferrous Metal
 Wood

FEATURES

Suitable for all purpose general grinding

GRIT RANGE

40 60 80 120

FILM BASED

Film Roll

AF 561

PROPERTIES

Backing Synthetic Plastic Film (3 Mil - 5 Mil)
 Bond Type High Performance Synthetic Resin
 Coating Semi-open
 Grain Aluminium Oxide

MATERIALS

Steel • Stainless Steel • Non Ferrous Metal
 Wood

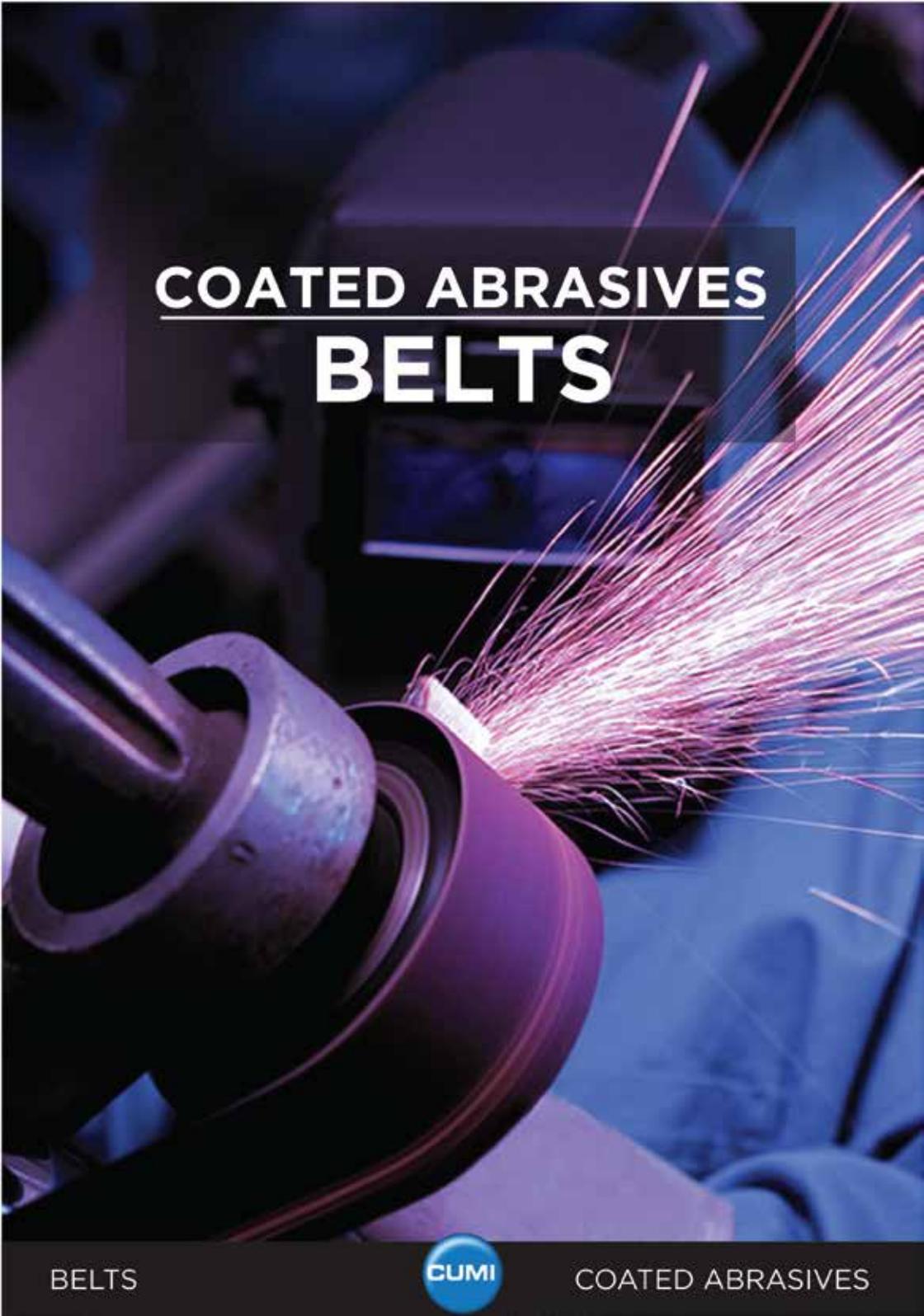


FEATURES

Suitable for all purpose general grinding

GRIT RANGE

80 100 120 150 220 320 500 600 800 1000 1200 1500 2000



COATED ABRASIVES **BELTS**

BELTS



COATED ABRASIVES

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 565
	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

APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL								
				Steel	Stainless Steel	Non Ferrous Metal	High Carbon Steel	Titanium	Hardwood Floor	Wood	MDF / Particle board	Glass
PAPER	FP 567	AIO Paper Belt	●						●	●	●	
CLOTH BASED FOR WOOD	YS 595	Ceramic Cloth Belt	◐						●	●	●	
	XS 581	Zirconia Cloth Belt	◐			●			●	●		
	YS 575	SiC Cloth Belt	◐						●	●	●	
	YS 549	AIO Cloth Belt	◐							●	●	
CLOTH BASED FOR METAL	YS 592	Ceramic Cloth Belt	●	●	●		●	●				
	YY 585	Zirconia Cloth Belt with Top Coat	●	●	●	●	●	●				
	YY 583	Zirconia Cloth Belt	●	●		●	●					
	YS 562	AIO Cloth Belt	●	●		●	●	●				
	JF 565	AIO Flexible Cloth Belt	◐			●						
	YW 571	SiC Cloth Belt	●	●	●							●

● CLOSE COAT

◐ SEMI-OPEN COAT

PAPER BASED

AIO Paper Belt

FP 567

PROPERTIES

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

MATERIALS

Hardwood Floor • Wood • MDF • Particle Board

FEATURES

Modified bond system for extra durability



MACHINE

FORM



GRIT RANGE

60 80 120 150 180 220



CLOTH BASED- FOR WOOD

Ceramic Cloth Belt

YS 595

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 high rate of cut without burn marks



MACHINE SPECIAL



GRIT RANGE

36 60 80 120

Zirconia Cloth Belt

XS 581

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



MACHINE FORM



GRIT RANGE

36 60 80 120

CLOTH BASED- FOR WOOD

SiC Cloth Belt

YS 575

PROPERTIES

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

MATERIALS

Hardwood Floor • Wood • MDF • Particle Board

FEATURES

Close Graded grains for excellent cut & finish



MACHINE

SPECIAL



GRIT RANGE

24 30 36 40 50 60 80 100 120 150

AIO Cloth Belt

YS 549

PROPERTIES

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

MATERIALS

Wood • MDF • Particle Board

FEATURES

Special Bond to minimize burn marks



MACHINE



GRIT RANGE

36 60 80 100 120 150 180

CLOTH BASED- FOR METAL

Ceramic Cloth Belt with Top Coat

YS 592

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

TOP COAT



MACHINE

SPECIAL



Zirconia Cloth Belt with Top Coat

YY 585

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

TOP COAT



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

JF 565

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



MACHINE



GRIT RANGE

60 80 100 120 150 180 220 280 320 400

SiC Cloth Belt

YW 571

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



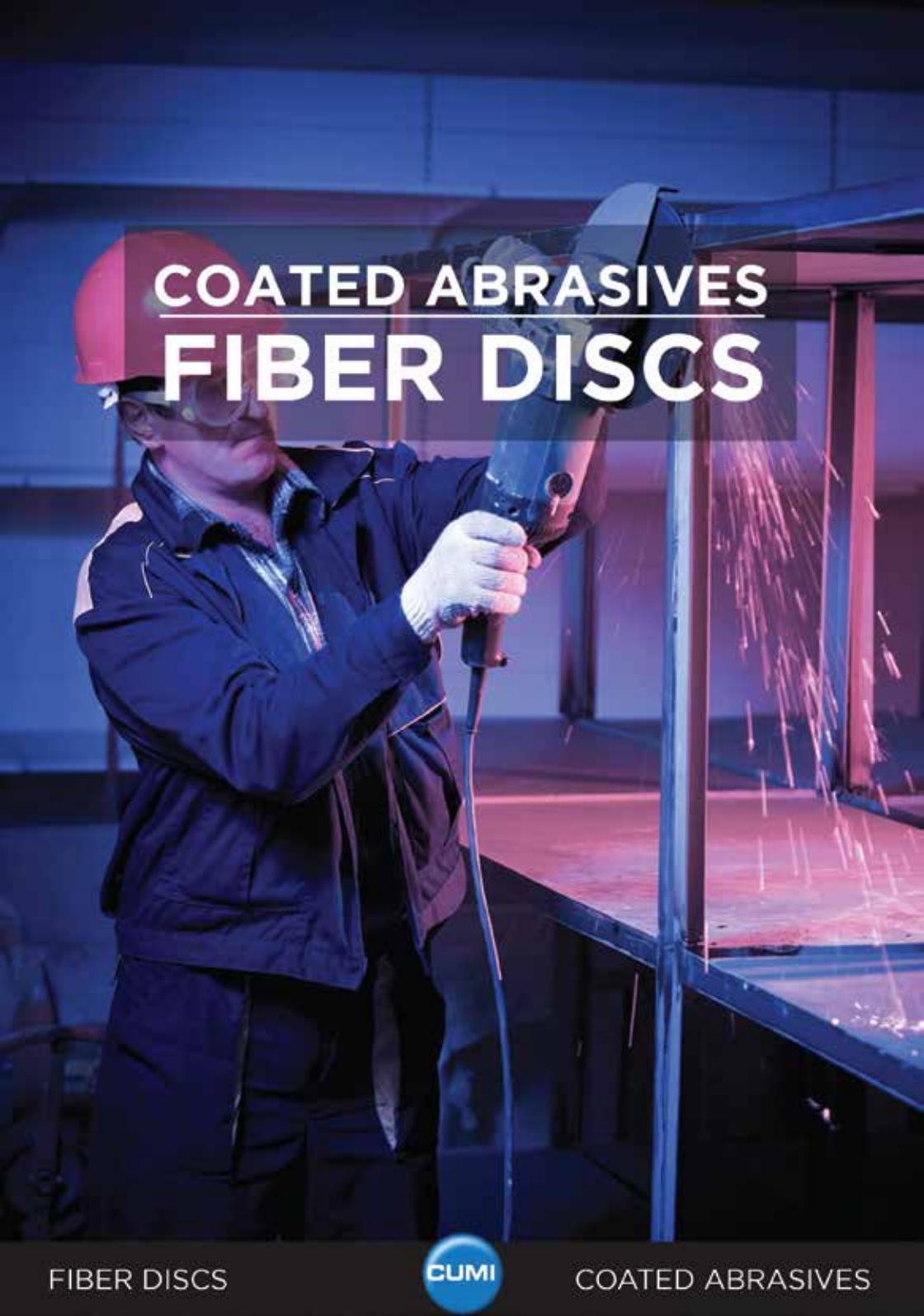
MACHINE

SPECIAL



GRIT RANGE

60 80 100 120 150 180 220 320 400



COATED ABRASIVES FIBER DISCS

FIBER DISCS

CUMI

COATED ABRASIVES

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



ROUND HOLE



SLIT HOLE

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



AVAILABLE VARIANTS

IDC FIBER DISCS	JUMBO FIBER DISCS
VR 599	VR 571
VR 589	VR/FR 561
VR 569	VR/FR 543

APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL							
				Steel	Stainless Steel	Non Ferrous Metal	Chrome Steel	Castings	Glass Fiber	Wood	Stone / Glass / Marble
IDC	VR 599	CUMI Krypton	●	●	●		●	●			
	VR 589	CUMI Zing	●	●	●		●	●	●		
	VR 569	Alpha	●	●	●	●			●	●	
JUMBO BASED	VR / FR 571	SiC Fiber Disc	◐			●				●	●
	VR / FR 561	Alpha Supreme	●	●	●	●			●	●	
	VR / FR 543	Cumi Flex AIO	●	●	●	●			●	●	

● CLOSE COAT

◐ SEMI-OPEN COAT

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



I
Individual

D
Disc

C
Coat



IDC FIBER DISCS

CUMI Krypton

VR 599

PROPERTIES

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



MACHINE



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 50 60 80 100 120

CUMI Zing

VR 589

PROPERTIES

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



MACHINE



MATERIALS

Steel • Stainless Steel • Chrome Steel
 Castings • Glass fiber

FEATURES

Premium grains for aggressive edge grinding

GRIT RANGE

24 36 50 60 80 100 120

IDC FIBER DISCS

Alpha

VR 569

PROPERTIES

Backing	0.8mm vulcanised fiber
Bond Type	Resin
Coating	Close Coat
Grain	Ceramic Aluminium Oxide

MATERIALS

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

FEATURES

Special bond for metal grinding application

GRIT RANGE

24 36 50 60 80 100 120



MACHINE



PATTERN DISCS

PROPERTIES

Backing	Vulcanised fiber
Bond Type	Resin
Coating	Open Coat
Grain	Brown Aluminium Oxide

MATERIALS

Wood

FEATURES

The structured pattern of grains prevents loading and gives better life and cutting action

GRIT RANGE

24 36 50 60 80 100 120



MACHINE



JUMBO FIBER DISCS

SiC Fiber Disc

VR / FR 571

PROPERTIES

Backing 0.8 / 0.6 mm 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



MACHINE

FORM



GRIT RANGE

24 36 50 60 80 100 120

Alpha Supreme

VR / FR 561

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



MACHINE

FORM



GRIT RANGE

24 36 50 60 80 100 120

JUMBO FIBER DISCS

Cumi Flex AIO

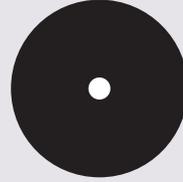
VR / FR 543

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



MACHINE



FORM



FEATURES

Suitable for all purpose general grinding

GRIT RANGE

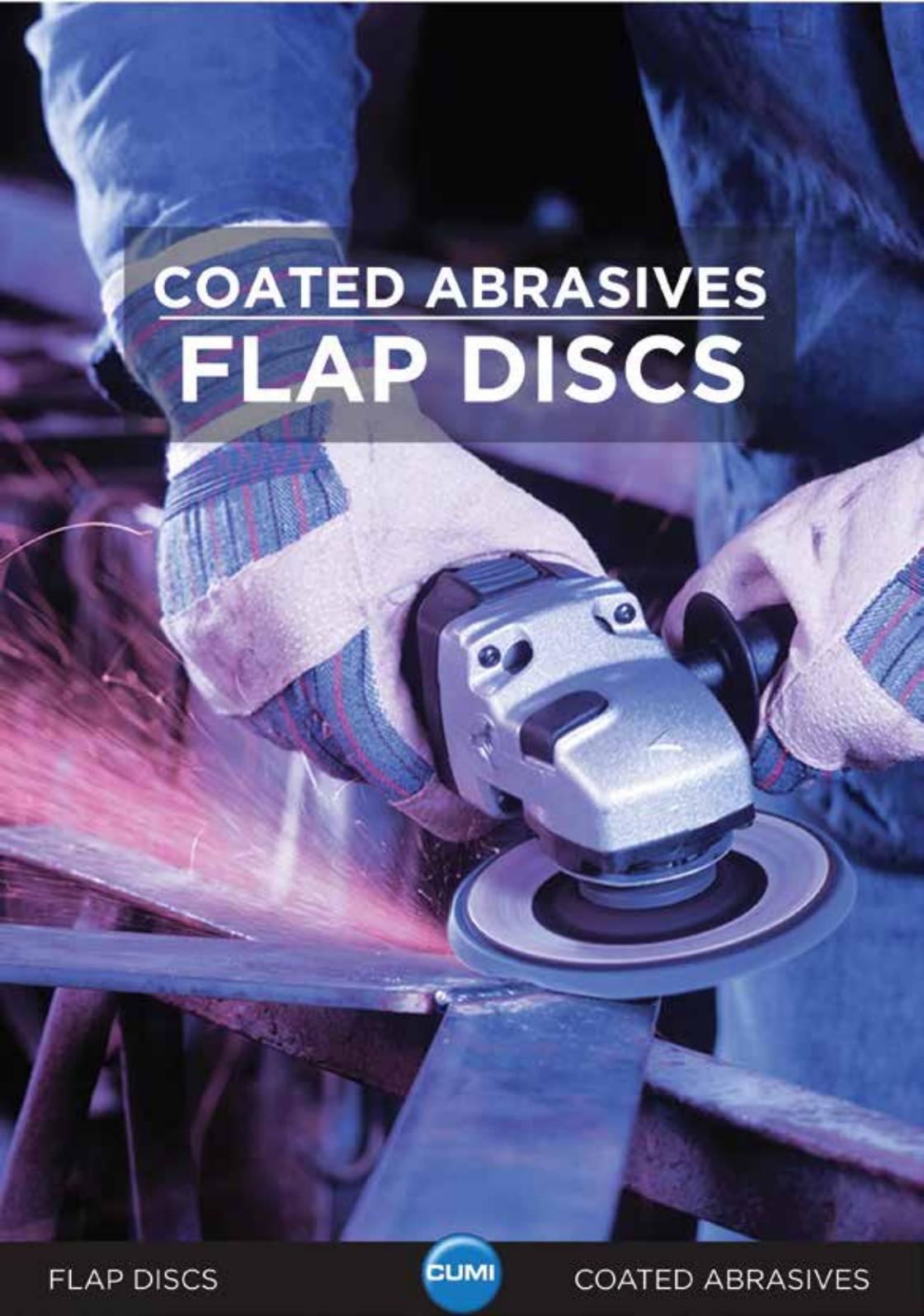
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FIBER DISCS



COATED ABRASIVES



COATED ABRASIVES
FLAP DISCS

FLAP DISCS



COATED ABRASIVES

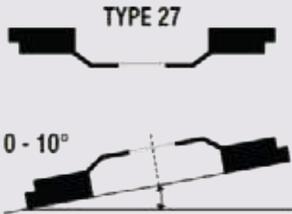
FLAP DISCS

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

Typically, a flap disc is made of 3 components:

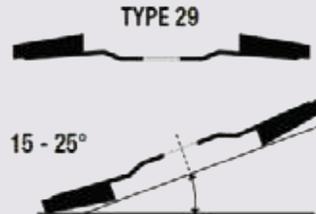
- Backing pad
- Bonding agent
- Abrasive cloth flaps.

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.

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

APPLICATION GUIDE

BACKING	GRAIN TYPE	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL			
					Steel	Stainless Steel	Non Ferrous Metal	Wood
CLOTH	Ceramic Aluminium Oxide	XD 599	Cumiflex Gold	●	●	●		
		XD 581	Cumiflex Gold	●	●	●		
	Zirconia Alumina	YS 588	Cumiflex Universal Pro	●	●	●		
		XS 588	Cumiflex Universal Plus	●	●	●	●	●
		XD 589	Cumiflex Universal Inox	●	●	●	●	●
	Interleaved (ZA/AIO)	XS 588/XS 543	Cumiflex Duo	●	●	●		
	Aluminium Oxide	XS 561	Cumiflex Universal AIO	●	●	●		

● CLOSE COAT

◐ SEMI-OPEN COAT

CLOTH BASED

Cumiflex Gold

XD 599

PROPERTIES

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

MATERIALS

Steel • Stainless Steel

FEATURES

Faster cut-rate with reduced grinding temperature



MACHINE

SPECIAL



GRIT RANGE

40 60 80 120



FLAP DISCS



COATED ABRASIVES

CLOTH BASED

Cumiflex Gold

PROPERTIES

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

MATERIALS

Steel • Stainless Steel

FEATURES

Faster cut-rate with reduced grinding temperature

GRIT RANGE

40 60 80 120

XD 581



MACHINE

SPECIAL



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
40 60 80 120

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

XS 588



TOP COAT

MACHINE



FORM



SPECIAL



XD 589



MACHINE



FORM



CLOTH BASED

Cumiflex Duo

PROPERTIES

Backing	X - weight cotton
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/XS543



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



A close-up photograph of a male worker in a blue t-shirt, wearing safety glasses and a respirator mask. He is leaning over a workbench, using a hand-held sanding disc to smooth a piece of wood. The background is a plain, light-colored wall. A semi-transparent dark grey box is overlaid on the upper part of the image, containing the text 'COATED ABRASIVES DISCS' in white.

COATED ABRASIVES DISCS

DISCS



COATED ABRASIVES

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



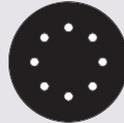
6" 8holes



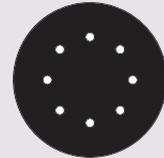
6" 9holes



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 592	Ceramic Paper Disc	●	●	●	●	●	●	●
	FP 583	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

FP 592

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
Hardwood Floor

FEATURES

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



MACHINE



FORMS



GRIT RANGE

24 36 40 50 60 80 100 120

Zirconia Paper Disc

FP 583

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
Hardwood Floor

FEATURES

Premium Zirconia Alumina grains
for superior cutting action



MACHINE



FORMS



GRIT RANGE

24 36 40 50 60 80 100 120

PAPER BASED

SiC Paper Disc

FP 574

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



MACHINE



FORMS



GRIT RANGE

60 80 120 150

AlO Paper Disc

FP 567

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



MACHINE



FORMS



GRIT RANGE

60 80 120 150 180 220 320

PAPER BASED

AIO Anti Static Paper Disc

CP 544

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



MACHINE

FORMS



GRIT RANGE

40 60 80 120 150 180 220 320 400

AIO Stearate Paper Disc

CP 547

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



MACHINE

FORMS



GRIT RANGE

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

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

FEATURES

Micro crystalline ceramic grains enhances cut rate & durability

GRIT RANGE

24 36 50 60 80 100 120

YS 592



MACHINE

FORM

SPECIAL



Premium Zirconia Cloth Disc

PROPERTIES

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

MATERIALS

Steel • Stainless Steel

FEATURES

Tough bond with supersize coat ensures cooler cutting action

GRIT RANGE

36 60 80 100 120

YY 585



MACHINE

FORM

SPECIAL



CLOTH BASED

Zirconia Cloth Disc

XS 581

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



MACHINE

FORM



GRIT RANGE

24 36 60 80 120

Zirconia Cloth Disc

YS 582

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



MACHINE



GRIT RANGE

80 120

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



CLOTH 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



GRIT RANGE

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



PLAIN / PSA / HOOK 'N LOOP



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



APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL			
				Steel	Stainless Steel	Titanium	Castings
CLOTH	YS 592	Ceramic Cloth Disc	●	●	●	●	●
	YY 585	Premium Zirconia Cloth Disc	●	●	●	●	●
	YS 588	Zirconia Cloth Disc	◐	●	●		
	VR 561	Alpha Supreme	◐	●	●		

● CLOSE COAT

◐ SEMI-OPEN COAT

CLOTH BASED

Ceramic Cloth Disc

YS 592

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

24 36 50 60 80 100 120



MACHINE

FORM



Premium Zirconia Cloth Disc

YY 585

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 80 100 120



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

GRIT RANGE

40 60 80 120

YS 588



MACHINE



FORM



SPECIAL



Alpha Supreme

PROPERTIES

Backing	0.8mm Vulcanised Fiber
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



DOUBLE SIDED DISCS

Double sided discs are a specialty in CUMI's range of coated abrasives. Designed for sanding on wooden floors, these discs provide exceptional performance and eliminate the need for a hardplate. Available in both paper and cloth backings. These are the preferred choice of customers over single sided discs.

Advantages of double sided discs:

- Abrasive grains on both sides of the disc
- Stiff design for extra rigidity
- Faster cutting action increasing productivity
- Reduction in changeover time
- Modified tough resin for extra durability on floor sanding operations



CLOTH BASED

SiC Cloth Disc

XM 574

PROPERTIES

Backing	X - weight cotton
Bond Type	Resin
Coating	Semi-open coat
Grain	Silicon Carbide

MATERIALS

Wood

FEATURES

Suitable for faster cutting action



MACHINE

FORM



GRIT RANGE

24 36 40 50 60 80 100 12

FIBER 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 faster
cutting action

FP 574



MACHINE

FORM



GRIT RANGE

60 80 120 150

AlO Paper Disc

PROPERTIES

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

MATERIALS

Wood • Glass Fiber • Wall • Metal & Putty

FEATURES

Provides good life & cutting action

FP 544



MACHINE

FORM



GRIT RANGE

60 80 120 150

COATED ABRASIVES **FLAP WHEEL**



FLAP WHEEL



COATED ABRASIVES

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/XD 549
XG 542	

APPLICATION GUIDE

BACKING	CODE	PRODUCT DESCRIPTION	COATING	MATERIAL					
				Steel	Stainless Steel	S.S Pipes	Profiled steel sections	Tools	Cutlery
CLOTH	XF 569	Premium AIO Flexible Abrasive Cloth	●	●	●	●	●	●	●
	XF 567	AIO Abrasive Cloth	●	●	●	●	●	●	●
	XG 542	AIO Abrasive Cloth	●	●	●	●	●	●	●
	XD 589	Zirconia Abrasive Cloth	●	●	●	●	●	●	●
	XD 589/ XD 549	Interleaved (AIO / Zirconia) Abrasive Cloth	◐	●	●	●	●	●	●

● CLOSE COAT

◐ SEMI-OPEN COAT



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

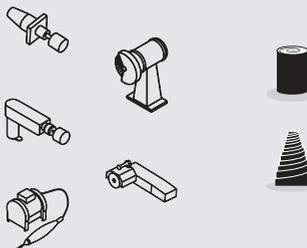
FEATURES

For applications demanding high cut rate



MACHINE

FORM



GRIT RANGE

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

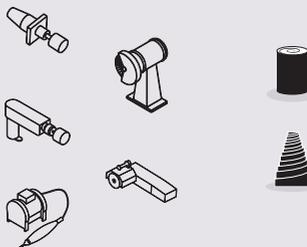
FEATURES

For applications demanding extra durability



MACHINE

FORM



GRIT RANGE

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



GRIT RANGE

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



FLAP WHEELS



COATED ABRASIVES

CLOTH BASED

Zirconia Abrasive Cloth

XD 589

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



MACHINE

FORM



GRIT RANGE

40 60 80 120

Interleaved (AlO / Zirconia) Cloth

XD 589/ XD 549

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



MACHINE

FORM



GRIT RANGE

40 60 80 120

HEAD - INTERNATIONAL BUSINESS
VIPIN MALIK

- ✉ malikvipin@cumi.murugappa.com
- ☎ vipin0810
- 📞 +91 97910 14577
- 📞 +91 44 3000 6194

RUSSIA
KRISHNA KUMAR

- ✉ nkishnakumar@cumi.murugappa.com
- ☎ krishnakumar.naras
- 📞 +91 8754483075

SAARC & SE ASIA
KRISHNAMOORTHY

- ✉ krishnamoorthye@cumi.murugappa.com
- ☎ krishnamoorthy.e
- 📞 +91 98401 88396
- 📞 +91 44 3000 6190
- 📞 +91 44 3000 6191

AFRICA
VIPIN MALIK

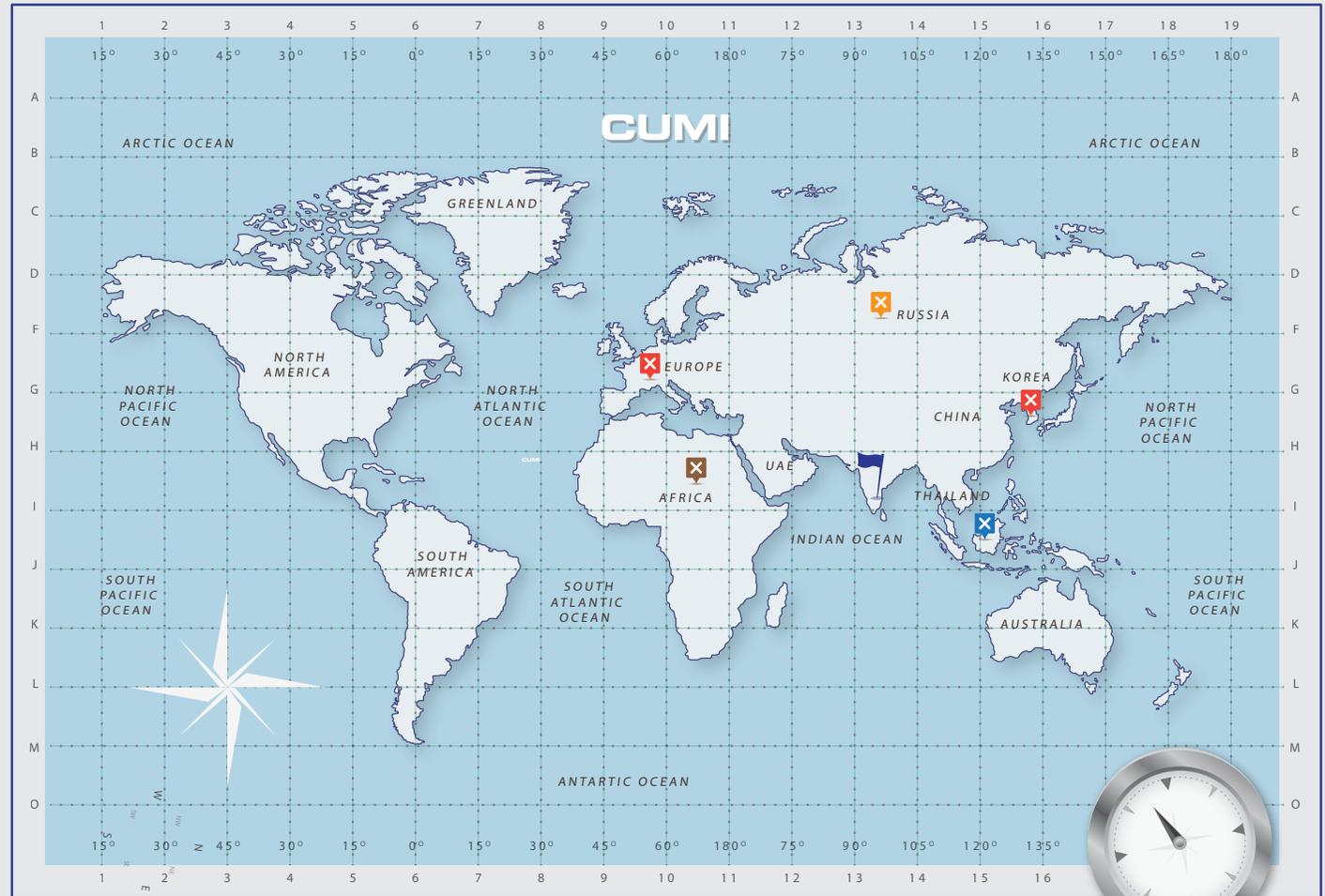
- ✉ malikvipin@cumi.murugappa.com
- ☎ vipin0810
- 📞 +91 97910 14577
- 📞 +91 44 3000 6194

EUROPE & KOREA
NEELAKANDAN

- ✉ neelakandanv@cumi.murugappa.com
- ☎ neels.v
- 📞 +91 814 850 6335

EASTERN EUROPE
AKSHAY K

- ✉ akshayk@cumi.murugappa.com
- 📞 +91 9677063238
- 📞 +91 9677063238



USA
 CUMI America Inc.
 1119 AVIATION BLVD, HEBRON, KY 41048, US
 +1 844 CUMI USA (+1 844 286 4872)
 +1 859 372 6606
 +1 859 372 6607
 nbichkar@cumiusa.com, rsmith@cumiusa.com

MIDDLE EAST
 CUMI Middle East Fze, P.O. Box 10599,
 Rak Free Trade Zone, Ras Al Khaimah, UAE
 +97 1072046181
 +97 1072046182
 sumonroy@cumi.murugappa.com

THAILAND
 Wendt Grinding Technologies Ltd.,
 109/21, Moo4, Tambol Plukdaeng
 Ampur Plunkdaeng, Rayang- 21140, Thailand
 +66(0) 38955490 (Dir) 955491/2
 +66-86-3075809 (Office Number)
 +66(0) 38955493
 praveen@wendt-thai.com



AUSTRALIA
 CUMI (Australia) Pty Ltd,
 29 Gipps Street PO Box 142
 Carrington, NSW, Australia, 2294
 +61 (02) 49400035
 +61 (02) 49400037
 usk@cumi.com.au

CHINA
 CUMI ABRASIVES AND CERAMICS CO., LTD
 No.9, Donghuan Road,
 Yanjiao Development Zone, Sanhe City,
 Hebei Province, P.R. China, 065201
 +86 316 18630663335
 malikvipin@cumi.murugappa.com

CUMI's coated abrasive unit is the first among its kind to win the prestigious TPM Excellence Award by JIPM - Japan Institute of Plant Maintenance.



CARBORUNDUM UNIVERSAL LIMITED

Parry House, No.43, Moore Street, 3rd Floor,
Chennai 600 001, India

Tel: +91 44 3000 6194 (Direct)

Fax: +91 44 3000 6191

www.cumiabrasives.com