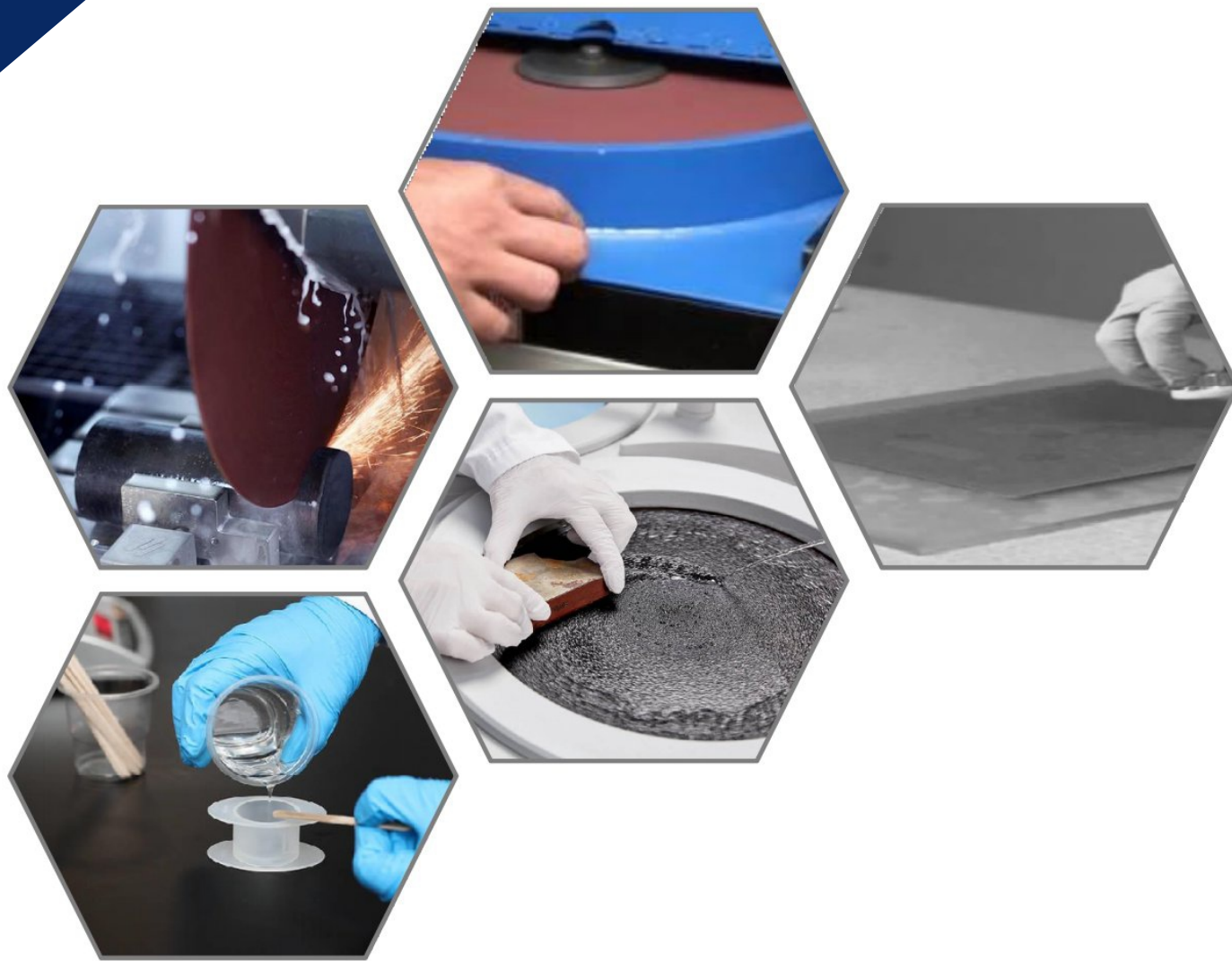


2024-2025

METALLURGICAL CONSUMABLES CATALOGUE_{INDIA}



COMPLETE

METALLOGRAPHY PRODUCTS

FOR SPECIMEN PREPARATION



MICROGRAPH
TECHNOLOGIES



Laboratories globally are challenged with need for getting products faster to market and at the same time achieve high productivity.



Excellent service is not just a name. It's a promise.



MICROGRAPH
TECHNOLOGIES



CUTTING ABRASIVES



HOT MOUNTING



COLD MOUNTING



GRINDING ABRASIVES



**SILICON CARBIDE
POLISHING PAPER**



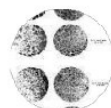
POLISHING CLOTH



**POLISHING
SUSPENSION**



**DIAMOND
SUSPENSION**

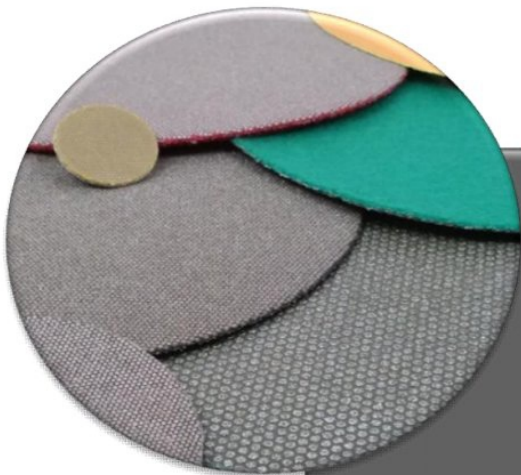


**METALLURGICAL
CHART**





CUTTING ABRASIVES



These sample preparation cut-off wheels are engineered to provide the best possible burr free materials sectioning. The precision series sample preparation cut-off wheels rubber bonded are engineered for high speed precision sectioning. Available in different diameters in (al₂o₃) for hard and medium-soft ferrous materials; (sic) for non-ferrous materials.

CUT-OFF WHEEL



DESCRIPTION	SIZE (mm) Dia x Hole x Thick	RPM	PACK
Abrasive plain parting/cutting wheels used on hard ferrous materials with hardness up to 40HRC to 60HRC.	200 x 31.75 x 1	4500	25pc
	200 x 31.75 x 1.5		
	200 x 31.75 x 2		
	200 x 31.75 x 2.5		
	200 x 31.75 x 3		
These wheels for non ferrous materials & cast iron with hardness up to 60 HRC.	250 x 31.75 x 1	3500	50pc
	250 x 31.75 x 1.5		
	250 x 31.75 x 2		
	250 x 31.75 x 2.5		
Used on heavy duty components & highly breakage application. Aluminum oxide wheel used for tough cutting & small components thin slicing application. Also used on mild structural steel, alloy steel, bearing steel (up to 60HRC)	250 x 31.75 x 3	2500	50pc
	350 x 31.75 x 1.5		
	350 x 31.75 x 2		
	350 x 31.75 x 2.5		
	350 x 31.75 x 3		
	400 x 31.75 x 3.2		
	500 x 31.75 x 4		
	1800	100pc	
	1200		

Sharp grains ensure better life- more cuts per wheel.

DESCRIPTION	PACK
Synthetic white cutting coolant oil fluid are water soluble coolant, used in the ratio 2:18(oil : water) for abrasive cutting operations.	1lt
	5ltr
	20ltr

CUTTING OIL



Safe & sturdy wheels ideal for fast & precise cuts on TMT rods, pipes, and rails.





HOT MOUNTING



A full range of high quality compression mounting supplies including, compression powders and preforms in a variety of colors, mounting and molding compounds, and mounting and mineral powder and more.

DESCRIPTION	COLOR	PACK
<p>High quality compression mounting supplies are available in black, red, green, and mottled green/brown. 1 1/4" and 1 1/2" black, red, and green preforms are easy to handle and accelerate molding time.</p> <p>Phenolic powder used for regular analysis, With fast cycle time.</p>	Black	1kg
		2.5kg
		5kg
		10kg
		25kg
	Green	1kg
		2.5kg
		5kg
	Red	1kg
		2.5kg
		5kg
	Brown	5kg
10kg		
25kg		

PHENOLIC POWDER



TRANSPARENT GRANUALES



DESCRIPTION	COLOR	PACK
Suited to applications that require complete visibility of the sample, good flow characteristics.	Transparent	5kg
		10kg
		25kg

DESCRIPTION	COLOR	PACK
Applied across analysis that requires the conductive sample, for SEM analysis.	Black	5kg
		10kg
		25kg

CONDUCTIVE POWDER



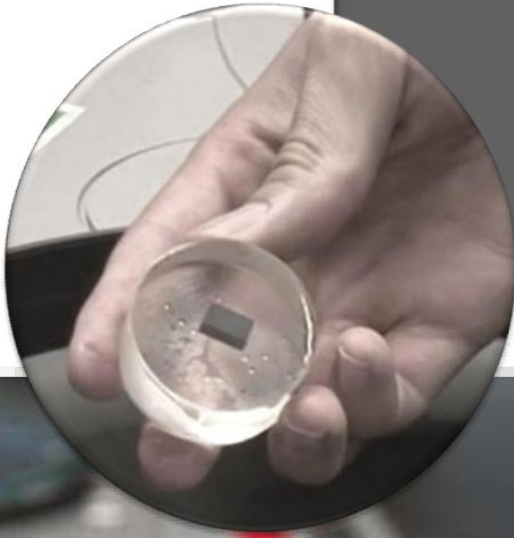
MOULD RELEASE SPRAY



DESCRIPTION	PACK
Sprayed on the walls of the mounting chamber for easy removal of the mould.	350ml
	450ml



Cold mounting are preferred when speed and ease are desired, especially for high volume production. They are recommended for samples that are damaged by heat and pressure treatment. Filler powders, liquid additives and release agents are available. Available curing cycles range from 10 minutes to 1 hour.



COLD MOUNTING

COLD MOUNTING COMPOUND



DESCRIPTION	COLOR	PACK
<p>A low viscosity, two components, clear, chemical resistant casting resin that gels at room temperature. It exhibits low shrinkage and superior adhesion. Cold mounting compound are preferred when ease are desired, especially for high volume production. They are recommended for samples that are damaged by heat and pressure treatment. Filler powder, liquid additives and release agents are available. Available curing cycles range from 10 minutes to 1 hour.</p>	White	<p>400gm Powder + 400ml Liquid</p>
	Yellowish	
	Pink	
	Blue	

DESCRIPTION	PACK
<p>Highly efficient Anti-Stick agent sprinkled on the walls of the mounting die.</p>	350ml
	450ml

SILICON MOULD SPRAY



RUBBER MOULD DIE



DESCRIPTION	SIZE
<p>The plastic & rubber mold is designed for cold mounting metallographic sample by epoxy. Easy to release and reusable.</p>	25mm
	30mm
	40mm





GRINDING ABRASIVES



These Aloxide dry grinding abrasives are recommended for hard materials preparation and can be used to effectively replace abrasives in the grit range of 36 (P36) to 120 (P120).

Available in PSA (pressure sensitive adhesive) with magnetic compatible.

DESCRIPTION	GRIT	SIZE (mm)	PACK
Spectro specimen in huge amount subjected to spectro graphy analysis are coarse ground through these discs. These disc is composed of coarse alumina abrasive.	36	350 x 40	25pc
	60		
	80		
	100		
	120		
Available in PSA(Pressure Sensitive Adhesive)	60	250 x 40	100pc
		275 x 40	
		300 x 40	
	80	250 x 40	
		300 x 40	

SPECTRO POLISHING PAPER DISC



EMERY GRINDING BELT



DESCRIPTION	GRIT	SIZE (MM)	PACK
The purpose of the grinding belt is to remove damage from the specimen and to remove material approaching the area of interest.	36	915 x 100	25pc
		1220 x 150	
	60	915 x 100	
		1220 x 150	
	80	915 x 100	
		1220 x 150	
	120	915 x 100	
		1220 x 150	





SILICON CARBIDE POLISHING PAPER



These Silicon Carbide Waterproof Polish Paper are recommended for soft/general purpose materials preparation in different grit range. They are best when used with Alumina & Diamond Suspensions 3 micron to 15 micron and can be used to effectively replace abrasives in the grit range of (P220) to (P2000).

SILICON CARBIDE WATERPROOF POLISHING PAPER



DESCRIPTION	GRIT	SIZE (Inch)	PACK
<p>These Silicon Carbide Waterproof Polish Paper are recommended for soft/general purpose materials preparation in different grit range.</p> <p>They are best when used with Alumina & Diamond Suspensions 3 micron to 15 micron and can be used to effectively replace abrasives in the grit range of (220) to (2000).</p>	80	9 x 11"	25pc
	100		
	120		
	150		
	180		
	220		
	320		
	400		
	600		
	800		
	1000		
	1200		
	1500		
	2000		
	2500		
	3000		
4000			
5000			
7000			
10000			

Premium sharp grains work fast and give uniform finish.

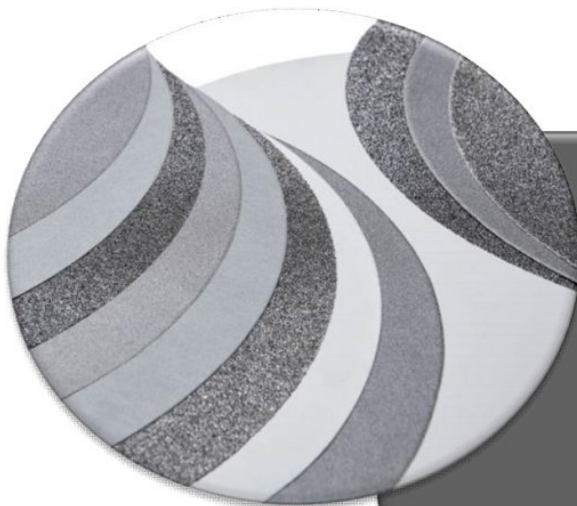
PSA(Pressure Sensitive Adhesive)

Superior paper backing for better grip & low heat transfer to hands.



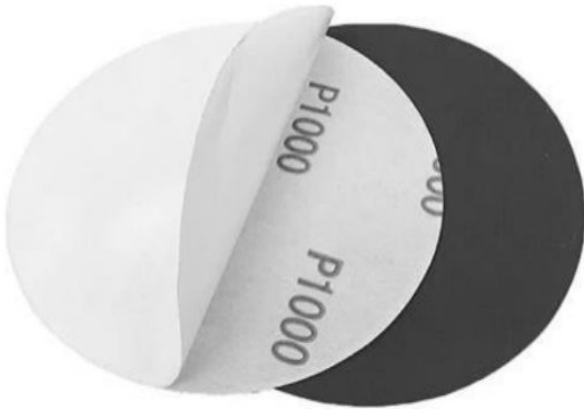


SILICON CARBIDE POLISHING PAPER



These Silicon Carbide Waterproof Polish Paper are recommended for soft/general purpose materials preparation in different grit range. They are best when used with Alumina & Diamond Suspensions 3 micron to 15 micron and can be used to effectively replace abrasives in the grit range of (P220) to (P2000).

SILICON CARBIDE WATERPROOF POLISHING PAPER ROUND



PSA(Pressure Sensitive Adhesive)

DESCRIPTION	GRIT	SIZE	PACK
<p>These Silicon Carbide Waterproof Polish Paper are recommended for soft/general purpose materials preparation in different grit range.</p> <p>They are best when used with Alumina & Diamond Suspensions 3 micron to 15 micron and can be used to effectively replace abrasives in the grit range of (220) to (2000).</p>	80	200mm	25pc
	100		
	120		
	150		
	180		
	220		
	320		
	400		
	600		
	800		
	1000		
	1200		
	1500		
	2000		
	2500		
	3000		
4000			
5000			
7000			
10000			

Strong paper backing ensures better grip and easy polishing.

Sharp grains ensure uniform perfect finish with better area coverage





POLISHING CLOTH



Polishing cloths are exceptional come in all standard sizes and textures for every laboratory application. Available with the following backings: plain, various series (magnetic compatible, non-rusting, long lasting), or PSA (pressure sensitive adhesive backing that is oil, water & alcohol resistant)

MICRO FINE POLISHING CLOTH

DISCRIPTION	THICKNESS	COLOR	SIZE	PACK
<p>These cloths are ultra fine polisher used with 0.3µm to 3µm alumina suspensions or diamond paste and aerosol spray.</p> <p>Micro polishing cloth for final polishing used with 0.5µm to 14µm diamond paste and aerosol spray.</p> <p>PSA (pressure sensitive adhesive)</p> <p>For final polishing stages of preparation, These types of Cloths are available with a range of softness and nap length. They give a more gentle polish, and are ideal for softer specimens and components. All cloths are self-adhesive unless marked plain.</p>	0.8mm	Maroon	200mm	10pc
			250mm	
			300mm	
			350mm	
	0.9mm	Dark Brown	200mm	
			250mm	
			300mm	
			350mm	
	1.3mm	Green	200mm	
			250mm	
			300mm	
			350mm	
0.7mm	Duro Red	200mm	10pc	
		250mm		
		300mm		
		350mm		
0.8mm	Duro Blue	200mm		
		250mm		
		300mm		
		350mm		
1.2mm	Selvyt	200mm		
		250mm		
		300mm		
		350mm		



A high pile, premium synthetic velvet with a woven base for final polishing of soft materials. Recommended for the final polishing of soft materials.



A buffed, 100% fine virgin wool cloth with uniform thickness designed for long life with a Pressure Sensitive Adhesive (PSA) backing that is oil, water & alcohol resistant.



A napless, long lasting cloth with a Pressure Sensitive Adhesive (PSA) backing that is oil, water & alcohol resistant. For rough and final polishing. Recommended for use with Polishing Paste and Suspensions

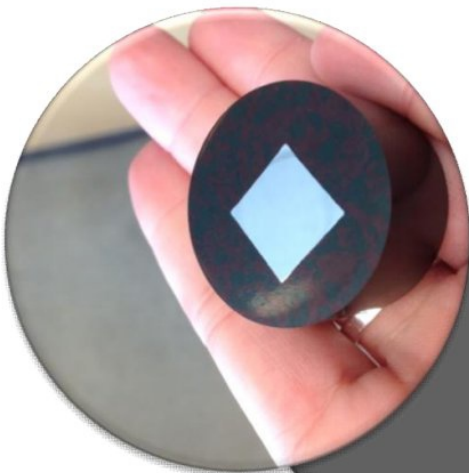


These polishing cloths come in all standard sizes and textures for every laboratory application. Plain and adhesive backs. Special-size orders accepted recommended for final polishing.





POLISHING SUSPENSION



Polishing Suspension for every application, including final polishing, high and low pH polishing, high and low removal polishing, alpha and gamma polishing, agglomerated and de-agglomerated polishing, polishing of soft and hard material and composites.

ALUMINA PASTE



DESCRIPTION	PARTICLE SIZE	PACK
Recommended when high ph is needed for aluminum, brass, copper, lead-based alloys, precious metals, titanium, other nonferrous materials and polish soft ores, glass, lapidary and soft metals. And specially for alpha & gamma polishing paste for superior polished sample surfaces.	1µm	500gm
	2µm	
	3µm	
	
	

DESCRIPTION	PARTICLE SIZE	PACK
A Specially formulated permanent suspension of 0.3µm Aluminum Oxide particles with a LOW (4pH) aqueous base for final polishing.	0.05µm	500gm
	0.1µm	
	0.3µm	
	0.6µm	
	1µm	

ALUMINA SUSPENSION



COLLOIDAL SILICA



DESCRIPTION	PARTICLE SIZE	PACK
A specially formulated permanent suspension of 0.05µm aluminum oxide particles with a LOW (11ph) aqueous base for final polishing.	0.03µm	500gm
	0.05µm	
	0.07µm	
	

DESCRIPTION	PARTICLE SIZE	PACK
Chromium green oxide general purpose permanent suspension that provides a high removal rate for most materials. 1.0µm, 3.0µm; recommended for samples that cannot be exposed to aluminum oxide contamination.	0.5µm	500gm
	1µm	
	2µm	
	3µm	

CHROMIUM GREEN OXIDE



DIAMOND PASTE



DESCRIPTION	MESH SIZE	PARTICLE SIZE	COLOUR	PACK
Ultra-fine finishing grades for high pressure seals and components requiring mirror finishing. These finishing grades for Tungsten Carbide, Ceramic and hard metallic components.	100000	0.25µm	Grey	5gm
	15000	1µm	Blue	
	8000	3µm	Green	
	3000	6µm	Yellow	
	18000	8µm	Red	
	12000	14µm	Brown	

DESCRIPTION	PARTICLE SIZE	COLOUR	PACK
Metallurgical finish on steel & very high finish of steel and hard metals. For operations requiring precise finishes and tolerances. For finish tungsten carbide dies, mirror polish on steel and hard steel moulds and gauges etc.	1µm	Blue	5gm
	2µm	Blue	
	3µm	Green	
	4µm	Green	
	5µm	Yellow	
Used in mirror polish and high finish on tungsten carbide, finest polish on sapphire, ruby, steel etc. Final finishing grades for moulds, dies, seals, flat lapping and production lapping. Used with water and oil soluble	6µm	Yellow	
	7µm	Yellow	
	8µm	Yellow	
	10µm	Orange	
	14µm	Orange	

DESCRIPTION	PACK
Diamond aerosol fluid spray specially formulated lubricant spray enables uniform dispersion of the compound. Low volatility to minimize dry lapping and non-staining formulation.	200ml
	300ml

DIAMOND FLUID





DIAMOND SUSPENSION



Diamond lapping compound paste are prepared with our unique diamond carrier. This enables the compound to adhere to specimens for maximum performance while maintaining lubricity for longer life in polishing and can be easily cleaned without the aid of harsh chemicals.

The background of the top section features a large, stylized circular graphic divided into several segments. Each segment contains a different type of microstructural image, such as grain boundaries, inclusions, or phase diagrams, rendered in a light blue, semi-transparent style. The text 'METALLURGICAL CHART' is overlaid in large, bold, white capital letters across the center of this graphic.

METALLURGICAL CHART

CHART	SIZE
INCLUSION RATING CHART	750 x 600
IRON CARBON PHASE DIAGRAM	1050 x 750
GRAY IRON MICROSTRUCTURE RATING CHART	900 x 750
HARDNESS CONVERSION CHART	900 x 600
GRAIN SIZE CHART	900 x 600
FORGING MICROSTRUCTURE STANDARD CHART	900 x 750

Metallurgical charts analysis reveals the condition and makeup of materials with macro, micro and SEM examinations. These charts analyses reveal microstructure, processes performed on the material during manufacture, and whether or not the materials meet the required specification(s) to ensure durability in the intended use.



METALART
We Value Your Advice



MICROGRAPH TECHNOLOGIES

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DELIVERY DETAILS	Within 3-4 Days
FREIGHT/ COURIER CHARGES	At Actual
PAYMENT METHOD	100% Against Invoice
PACKAGING CHARGES	Nil
GST NUMBER:	27AL99V7836D1ZG
BANK DETAILS	Bank Of Baroda A/C Holder:- Micrograph Tech. Current A/CNo.- 71010200001665 IFSC Code:- BARB0DBSWAR

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