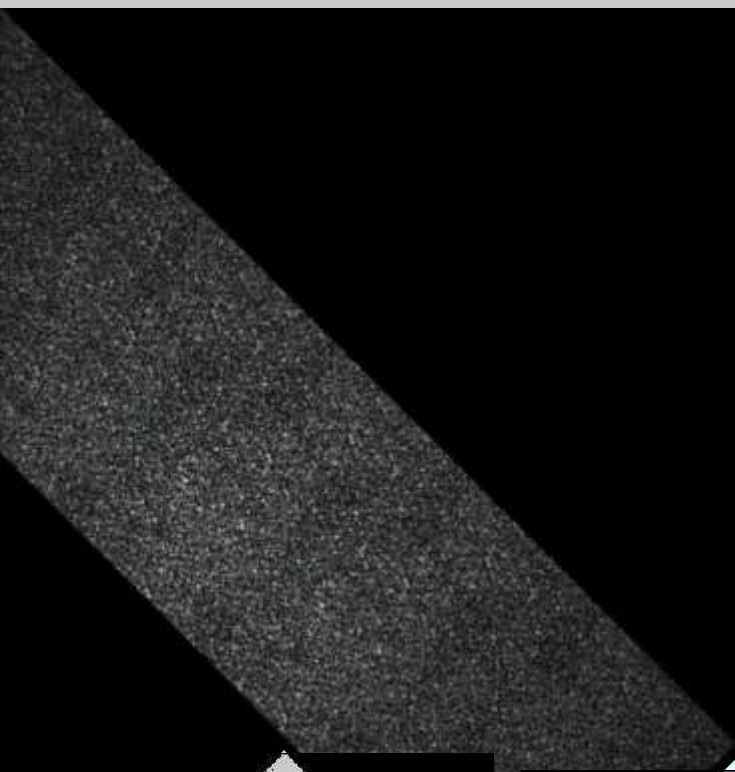


Pars mortar Co.



COPPER SLAG GRIT

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DESCRIPTION

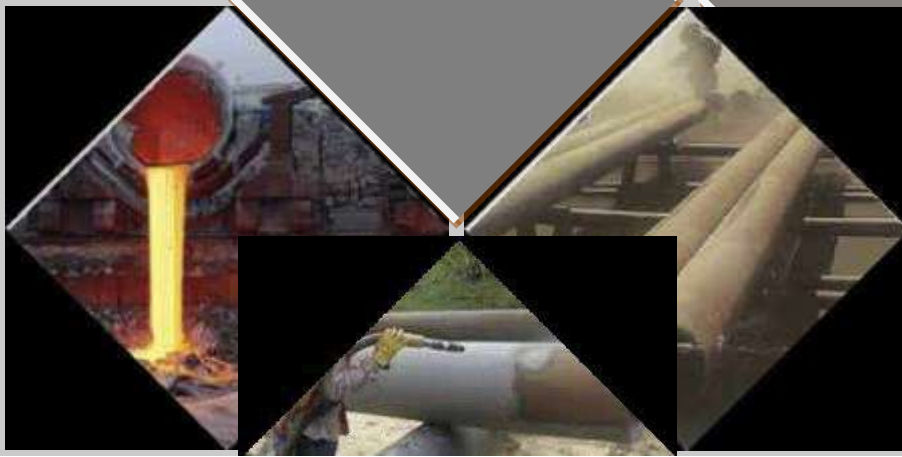
Copper slag is a by-product produced during smelting of copper, which is then processed into abrasive products. It is composed of Ferro silicate material and oxides formed when the molten slag is quenched in cold water. This fractures the slag into coarse, angular particles making it an ideal choice in many applications.

It is a low cost expendable abrasive suited for open blast cleaning and due to its low silica content it does not pose the health hazards created by silica sand. Its sharp, hard particles can provide a fast cleaning action and an excellent surface profile.

Applications of Copper Slag include abrasive blasting, building materials, land filling, road construction, abrasive cutting tools, tiles and glass and roofing granules.

Replacing sand by Copper Slag in blasting applications will lead to a safer and cleaner dust free environment, high efficiency. It cuts the surface faster resulting in low man-hours requirement.

As per ISO 8501-1 standard it gives surface finish up to SA3, SA- 2½, SA- 2.



BENEFIT OF COPPER SLAG GRIT

- Very high cleaning speed
- Very low dust level
- Lower abrasive consumption free
- silica levels are less than 1%
- chloride less than 1%

TYPICAL APPLICATIONS OF COPPER SLAG GRIT

- | | | | |
|----|--------------------------------------|----|--|
| 01 | Sandblasting and surface preparation | 08 | Pipeline blasting |
| 02 | Grinding wheels | 09 | Golf course filler - ballast for artificial turf |
| 03 | Corrosion cleaning | 10 | Additive to make high density concrete for nuclear shielding |
| 04 | Garment and textile blasting | 11 | Paints and coatings |
| 05 | Jean and clothing sand blasting | 12 | Blast cleaning |
| 06 | Offshore oil pipeline blasting | 13 | Asphalt anti-skid additive |
| 07 | Waterjet cutting deep sea structures | | |



CHEMICAL ANALYSIS		PHYSICAL PROPERTIES	
Constituent	% Weight	Property	Typical Value
Silica SiO ₂ [combined as silicate]	26 - 30%	Colour	Black, glassy
Free Silica	<0.5 %	Grain Shape	Angular, multifaceted
Alumina, Al ₂ O ₃	1 - 3 %	Hardness	7 Moh
Iron Oxide as FeO	42 - 48 %	Specific Gravity at 25oC	3.5
Calcium Oxide, CaO	1 - 2 %	Bulk Density at 25oC	1.87 tonnes/m ³
Magnesium Oxide, MgO	0.8 - 1.5 %	pH	7.0
Copper Oxide, CuO	0.60 - 0.70 %	Conductivity at 25oC	2 mS/m
Sulphates	0.02 - 0.3 %	Weight raise on Ignition	4%
Chlorides	0.001 - 0.002 %	Moisture Content	<0.1%

Grade	Size Range (mm)	Cleanliness Level	Surface Profile Average, Microns	Application
Coarse	0.5 - 2.5	Sa 2 1/2 / SP 10	100	The Ultimate size for the tough heavy duty blast jobs, thick rust and coatings removal.
Medium	0.5 - 1.5	Sa 3 / SP 5	75	An all-purpose size for medium to heavy rust or coatings removal.
Turbo+	0.1 - 0.5	Sa 3/ SP 5	40	Paint removal, Aluminum/Glass application
Turbo	0.2 - 1.0	Sa 3/ SP 5	50	Cleaning of steel, Mill scale removal
STD	0.2 - 1.4	Sa 3/ SP 5	50	Tanks, Fabrication shop pipe lines, oil industry
STD+	0.5 - 1.4	Sa 3/ SP 5	75	Tanks, Fabrication shop pipe lines, better Recyclability
HD	0.2 - 2.4	Sa 2 1/2 / SP 10	80	Marine/ Ship repair, tank, construction chemical application, heavy coatings removals
HD+	0.5 - 2.5	Sa 2 1/2 / SP 10	100	Ships, Bridge, Flooring application, better Recyclability

BIG BAGS

- Non-Graded and Graded Copper Slag can be supplied in different sizes
- Net Weight: 2.0 Metric Tons
- High quality, UV resistant PP fabric with lamination for moisture resistance and extended shelf life
- Swan neck ,iris closure with triple layer protection to eliminate any possibility of ingress of moisture/ water and foreign elements
- Tamper-resistant packing
- Economical to transport over long distances and can be easily stored in warehouses
- Most popular packing option for containerized and break-bulk export

SMALL BAGS

- Net Weight: 50 KG
- Non-Graded and Graded Copper Slag can be supplied in different sizes
- High quality, UV resistant PP fabric for moisture resistance and extended shelf life
- Tamper-resistant packing
- Convenient manual handling and mixing on site
- Can be easily stored in smaller warehouses and sites Economical to transport over long distances

BULK (SEA)

- Shipping in specialized bulk vessels
- Eliminates big bagging and de-bagging operations
- Increases supply chain efficiency
- Avoids double handling and reduces end-to-end logistics costs as well operational costs
- More environment-friendly
- Requires storage, loading and discharge infrastructure on both sides