



PLANT PURCHASE SPECIFICATION

FABRICATION BLOCK

DEPARTMENT: PRODUCTION

NO.: BHEL/FP/TS/48

REV NO : 00

REV. DT : 26.02.2021

Sheet 1 of 1

COPPER SLAG

1.0 GENERAL

Copper slag is abrasive blasting grit made of granulated slag from metal smelting process. This standard covers the purchase specification for Copper Slag. The material shall be solid with granular structure free from extraneous Impurities.

2.0 APPLICATION:

For Blast Cleaning/ Surface cleaning (removal of mill scale, rust, old paint, dirt, etc.) of Fabricated components and assemblies made of steel of different grades. Application shall be made by abrasive blasting machines using compressed air.

3.0 BROAD TECHNICAL SPECIFICATIONS:

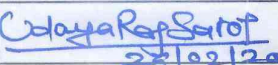
The Chemical Composition and Physical Properties of Copper slag is required as below-

Chemical Composition		Physical Properties	
Constituent	% Weight	Property	Typical Value
Silica SiO_2	26 - 30%	Granule Size	0.5 to 2.5 mm (coarse grade)
Free Silica	<0.5 %	Shape/ Form	Angular Granules
Alumina, Al_2O_3	1 - 3 %	Hardness	6 - 7 Mohs (min.)
Iron Oxide, FeO	42 - 48 %	Specific Gravity at 25°C	2.8 - 3.8 gm/ cm ³ (min.)
Calcium Oxide, CaO	1 - 2 %	Bulk Density at 25°C	1.87 Tonnes/ m ³ (min.)
Magnesium Oxide, MgO	0.8 - 1.5 %	Moisture content	< 0.1 %
Copper Oxide, CuO	0.60 - 0.70 %	Odour	None
Sulphates	0.02 - 0.3 %	Color	Black, Glassy
Chlorides	0.001 - 0.002 %	Water Solubility	Negligible

4.0 TEST CERTIFICATE: Material test report for chemical composition and physical properties as specified above shall be required with each lot.

5.0 PACKAGING: Material to be supplied in plastic bags of 25-50 Kg.

6.0 WARRANTY: 12 Months from date of receipt at BHEL Jagdishpur against any manufacturing defect. Supplier to submit the warranty certificate for same along with the supply.

	Prepared By	Reviewed By	Approved By
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