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COPPER SLAG ABRASIVE HEALTH AND SAFETY DATA SHEET

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STD: ISO/11126/N/CU/G + GRIT SIZE

1.CHEMICAL CLASSIFICATION : -

Iron silicate, amorphous glass composition, inert by product of copper smelting processes.

Chemical Composition

	%
Silica as SiO ₂ (combined)	33 - 38
Free silica	< 1
Alumina as Al ₂ O ₃	3 - 5
Iron as FeO	38 - 45
Calcium as CaO	2 - 6
Magnesium as MgO	1 - 3
Manganese as MnO	0.1 - 0.3
Sodium as Na ₂ O	0.5 - 1
Potassium as K ₂ O	0.4 - 0.6
Copper as CuO	0.3 - 0.8
Lead as PbO	0 - 0.04
Zinc as ZnO	1 - 2.5
Sulphur as S	0.8 - 1
Titanium as TiO ₂	0.2 - 0.5

Physical Properties

Chloride	<15ppm
Conductivity	<15 Microsiemens
Hardness	7-8 Moh Scale
Strength	Impact Fragmentation value 11.7%
Density	1.6-1.9 t/m ³
Grain shape	Edged, spattered, irregular
Colour	Black

LOW DUST: CDS Iron Silicate abrasives are air washed to remove dust and fines
Typical dust content of CDS SG is less than 1% below 212 microns
ISO standards permit up to 5% below 200 microns.

Information Table

<u>TYPE</u>	<u>GRADE</u>	<u>GRAIN SIZE</u>	<u>APPL/N DATA</u>
Y TURBO	1	0.10 - 0.40 MM	AVERAGE PROFILE 10/15MU TIMBER/DECARBONISING
X EXTRA FINE	2	0.20 – 0.85 MM	AVERAGE PROFILE 50/70MU ALUMINIUM STONE/WOOD
A FINE	3	0.20 – 1.7 MM	AVERAGE PROFILE 60/90MU SELECTIVE PAINT REMOVAL
HD COARSE	4	0.5 – 2.00 MM	AVERAGE PROFILE 70/125MU MULTI PURPOSE 75%
B COARSE	5	0.20 – 2.50 MM	AVERAGE PROFILE 125MU HEAVY CORROSION ETC.
C VERY COARSE	6	0.50 – 2.50 MM	REMOVAL OF HEAVY SCALE RUBBER LINING

BAG COLOUR KEYS

1=VIOLET
2=GREY
3=RED
4=BLUE

5=ORANGE

6=DEEP ORANGE

ALL THE ABOVE ALSO IN OMNI MASONARY IF REQUIRED.

Material is supplied in low slip polythene 50kg bags, palletized in either 1.00 or 1.5 tonnes OR 2 tonnes on new heavy duty non returnable wooden pallets and shrink wrapped.

Part pallets loads also supplied.

1.5 tonne Big bags are available at the same price as palletized material. 25 kg bags are also available at extra cost.

2. APPEARANCE,ODOUR ETC

Black, angular particles. Not soluble in water. No smell.

3. OCCUPATIONAL HEALTH DATA

Threshold limit value

TVL 10MG/M³ TOTAL DUST

5MG/M³ RESPIRABLE DUST

These values are the same for inert dust.

4. DANGERS TO HEALTH

General : The dust type is characterised as inert mineral dust.

Inhalation/ingestion : Can irritate the respiratory tract and lungs in the same manner as other types of inert dust.

SKIN : No health risks other than general mechanical irritation as from other inert mineral dust.

EYES : As for skin.

5. FIRST AID

No need for special efforts than general first aid necessary when handling/using other inert mineral dust.

6. PROTECTIVE MEASURES

As for handling/using inert dust generally. Unnecessary inhalation should be avoided. In close spaces the general needs for ventilation/outlet encapsulation should be fulfilled.

At especially dusty operations personal protection (breathing mask) should be used. Reference to control of Substances Hazardous to Health Regulations 1988, Statutory Instrument no. 1657 and Personal Protective Equipment at Work Regulations 1992:Statutory Instrument no. 2966.

7. REACTIVITY AND SPECIAL PRECAUTIONS

The products are stable.

8. FIRE FIGHTING MEASURES

Extinguishing media.
Not combustable.

9. DESTRUCTION AND CLEANING

No special routines other than forethought and caution.

10. EMERGENCY PROCEDURES AGAINST LEAKAGE

When cleaning up grit with a high proportion of fines following leakage or spillage, avoid methods (brushing or blowing) which will whirl up dust into the air.

11. PHYSICAL DATA

Specific gravity 3.5 kg/dm⁻³
Bulk density 1.7 kg/dm⁻³
Melting point approx 1150
Hardness 7-8 (moh's scale)
Shape - angular, edged

12. INFORMATION PERTAINING TO FLAMMABILITY

No risks

12. TRANSPORT, STORAGE AND HANDLING

Palletised material may be handled with a forklift truck. The pallets supplied are unsuitable for lifting with strop or slings. The pallets should not be stacked more than two high. Material supplied in bulk bags should be handled in accordance with the instructions on the bulk bag.

THIS PRODUCT MUST BE STORED UNDER COVER OR IN AN ENCLOSED WAREHOUSE AS IT MUST BE KEPT DRY. Direct rain should not be allowed to come into contact with the product.

14. DISPOSAL

Spent abrasives must be disposed of in accordance with the Environmental Protection Act 1990 and the Control of Pollution Act 1974. While there are no special requirements for the disposal of the material as supplied, the spent a brasive will contain other materials derived from the substrate being cleaned, which may be classed as Notifiable or Special under the above legislation.

15. APPROVALS

CDS iron silicate abrasives are approved by the HSE under schedule 2 of the Control Of Substances Hazardous To Health 1994.

16. CONTACT NUMBERS

FOR ALL TECHNICAL ENQUIRIES PLEASE CONTACT CHRIS STEVENSON ON :-

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