

CDS CONSULTANTS
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TECHNICAL DATA SHEET

Product *CDS SF*
Description A synthetic mineral blasting abrasive manufactured by granulation in water of the slag arising from steel production.

Chemical Analysis	Element		%
	Silica as SiO²	35	- 40
	Iron as Fe₂O₃	2	- 3
	Aluminium as Al₂O₃	6	- 10
	Calcium as CaO	33	- 38
	Magnesium as MgO	9	- 15
	Free silica		< 1

Water Soluble Salts **Conductivity of aqueous extract** **<25mSm⁻¹**

Mechanical Analysis

Hardness	6 Mohs
Bulk density	1.35-kg dm⁻³
Grain Shape	Angular
Colour	Brown

Grades Available	Grade	size range(mm)	surface profile achievable on mild steel (BS 7079)		
	Ultra fine	0.09-0.25	u/fine	15-30 microns	SF 80
	Extra fine	0.125-0.50	e/fine	25-40 microns	SF 50
	Fine	0.20 – 1.0	Fine	25 - 50 micron	SF 30
	Medium	0.20 – 2.50	Medium	50 – 85 micron	SF 20
	Coarse	1.00 – 2.50	Coarse	85 – 130 micron	SF 10

Abrasive Performance All grades are capable of achieving a cleanliness standard of Sa3. The coverage achieved will be dependent on factors such as pressure at the nozzle, nozzle diameter, grit valve setting and the skill of the operator.

Applications *CDS SF* is a multi-purpose expendable abrasive, which may be used for steel preparation or building cleaning. In use, the abrasive breaks down to form a light-coloured inert dust. On steel, the work rate and coverage are lower than equivalent grades of copper slag. *CDS SF* is ideally suited for applications where a light coloured abrasive may be aesthetically or environmentally more acceptable.

Industry Standards

CDS SF abrasives are manufactured to conform to ISO 11 126 -6 and BS 7079 (1989). Please note that our size ranges may vary from sizes quoted in the above standards.

Packaging *CDS SF* is packed in 50kg sacks and shrink -wrapped on pallets, 1.5 tonnes per pallet. Pallets are non-returnable. Alternative packaging is available upon request and includes 1.5 tonne bulk bags.

Availability *CDS SF* is available ex-stock and deliveries of 20/24 tonnes can normally be made to most parts of the country within 24 hours.

Health and Safety *CDS SF* abrasives, as supplied, do not present any hazard to health. Under the Control of Substances Hazardous to Health Regulations 1986; Statutory Instrument No. 1657, the user is required to ensure that personal exposure to the dust generated during blasting operations is limited to 10mg m⁻³ 8-hour TWA total inhalable dust or 5mg m⁻³ 8-hour TWA total respirable dust. Some coatings may contain components that have their own assigned occupational exposure limits, all relevant limits should be complied with.

First Aid Eye contact: Irrigate with sterile eye wash
Skin contact: Wash with water
Ingestion: Nontoxic

Handling and Storage

The pallets supplied are suitable for handling using fork -lift trucks. The pallets should not be handled using strops slung from a crane. The pallets should not be stacked more than two high. The material should be kept dry.

Disposal Spent abrasive 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 abrasive will contain other materials,

derived from the substrate being cleaned, which may be classed as Notifiable or Special under the above legislation.

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Further Information

Specific enquiries relating to abrasive selection and application or health and safety matters may be directed to

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