

TECHNICAL DATA SHEET

Product:	Iron Silicate
Description	An inert synthetic mineral blasting abrasive manufactured by granulation in water of the slag arising from unique fumed copper smelting processes. It is essentially an iron silicate with trace metals bound in an amorphous glass in the form of complex silicates and oxides and contains no free silica. The iron is present as iron silicate in amorphous glass (Si(Fe,Al,Ca)O _{2,3} , fayalite Fe ₂ SiO ₄) with accessory magnetite (Fe ₃ O ₄).
Uses	As a non-metallic blasting abrasive.
Physical Properties:	Specific Gravity (reference water at 20°C)3.3Bulk density1700 kg.m ⁻³ Hardness7 MohsGrain ShapeAngular
Chemical Properties	Typical Chemical AnalysisSilica asSiO233-38%Aluminium asAl2O33-7 %Iron asFeO43-55%Titanium asTiO21%Magnesium asMgO1-2%Calcium asCaO1-4%Zn asZn1-2%Cu asCu0.5-0.9Pb asPb0.01-0.2%*Free silica<0.5%*Lead content of Grade 2, 3 and 4 is typically less than 0.04%Water soluble chloride content - typically <15ppm
Grades	Conductivity of aqueous extract - typically < 15 mS/m
Industry Standards	Complies with BS EN 11126 Part 3 - Preparation of Steel Substrates before application of paints and related products – Specifications for non-metallic abrasives Part 3 Copper Slag.
Packing	25 kg bags palletised and shrink-wrapped.
Further Information.	Specific enquiries relating to the application and use of iron silicate may be directed to Scangrit Eastfield Road, Immingham, DN40 3NF United Kingdom Tel. 01469 554715 Fax. 01469 571644 sales@scangrit.co.uk