



# BLAST MEDIA DATA SHEET

# GUYSON IRON SILICATE

(for use with portable pressure pots)

## General

Guyson Iron Silicate is often better known by its original name of copper slag. It is a very cost effective, expendable, synthetic mineral abrasive, manufactured from the waste granulated slag produced by copper refineries.

In appearance, the product is glassy and it tends towards brittle fracture upon impact, which produces a great deal of dust. This property means that it is only suited to use in open blasting applications and should not be used in any recirculating systems.

However, if used as intended, the abrasive nature of the product makes it ideal for rapid corrosion removal prior to a recoating process.

Users should be mindful of the fact that although not harmful to health, the black dust created should be regarded as a nuisance by anyone coming into contact with it.

## Typical Applications

Mainly site blasting applications e.g. removal of corrosion and paint prior to recoating. Typical users would be contract blasters working on site, cleaning steelwork, commercial vehicle chassis etc.

### Chemical composition (typical)

Iron Silicate

FeO	:	38 – 45%
SiO <sub>2</sub>	:	33 – 38%
Al <sub>2</sub> O <sub>3</sub>	:	3 - 5%
CaO	:	2 - 6%
MgO	:	1 - 3%
Na <sub>2</sub> O	:	0.5 – 1%
MnO	:	0.1 – 0.3%

Free silica <1%

### Physical data

Shape	:	Angular
Colour	:	Black / glassy
Specific gravity	:	3.3
Bulk density	:	1.7g/cc
Hardness	:	7 – 8 Mohs

<b>Sizes Available</b>	:	<b>Nominal Size Range</b> (microns)
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Coarse	:	200 – 1700
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<b>Pack Size</b>	:	25 kg sack
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See Guyson MSDS reference 25 of all other details

Iron Silicate is a non-toxic and non-hazardous product. No special disposal precautions are required for the product once it has been used for blast finishing purposes. However, contamination from a specific application or process must also be considered prior to disposal.