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## Dirk Blastgrit

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### Product Description

Dirk Blastgrit is produced as a by-product of coal fired power stations. This special coal slag is subsequently dried, screened, blended and bagged for the sale as a granular abrasive, mainly used for open nozzle, compressed air grit blasting. The chemical constituents of Dirk Blastgrit contain no free silica Dirk Blastgrit is free of water soluble components Dirk Blastgrit is not magnetic, electricity conducting, hygroscopic or inflammable Dirk Blastgrit is chemically inert. Its residues do not react with any treated surface (important for all stonework applications)

### Chemical Analysis

Applicable to all grades:

Silica (bound as silicate)	48 – 50%
Aluminina Oxide	22 – 26%
Iron Oxide	13 – 17%
Potassium Oxide	4 - 5%
Calcium Oxide	3 - 5%
Magnesium	2 - 5%

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### Physical Properties

Gravity	2.4g/cm <sup>3</sup>
Bulk Density	1.4g/cm <sup>3</sup>
Grain Shape	angular
Colour	brown/black
Conductivity	less than 25 (millisiemens/metre)

### Standards

Dirk Blastgrit is a non metallic abrasive and meets the requirements of ISO 11126 part 4 BS 7079 Part F4.

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## Health & Safety Regulations

There is a health and safety data sheet available for Dirk Blastgrit.

## Current Legislation

Abrasive containing silica, or products likely to cause Silicosis by the inhalation of dust, are largely banned in most industrial countries. Dirk Blastgrit contains less than 0.1% free silica. It meets the requirements of 'The Control of Substances Hazardous to Health Regulations 1988' (COSHH).

- Special Consideration
- Ensure you have consulted our Technical Department where removal of special coatings may present a hazard.
- Always wear an air fed helmet when blasting cleaning
- Keep Dirk Blastgrit away from any strong acids
- Leading oil companies have established that the sparks produced whilst blast cleaning is not capable of igniting inflammable atmospheres providing special precautions are taken. Please consult our technical staff for more details.

## Disposal

Blasting debris should be disposed of on a suitable waste disposal site.

## Packaging and Storage

35 bags of Dirk Blastgrit are packed on each pallet. Each bag contains 41kg of Dirk Blastgrit. The bags are two ply paper bags with on BIOPAL ply (this material is biodegradable and may be burned). All pallets are non returnable and shrink-wrapped. They should not be stacked more than two high. Dirk Blastgrit, especially the finer grades should be kept dry, although during summer months, the high standard of protection allows for some outdoor storage.

## Notes

Dirk Blastgrit will achieve SA 2, SA 2 .1/2 or SA 3. Due to many variables encountered on site, the operator must ensure suitability of a particular grade of Dirk Blastgrit. We are happy to supply a sample of any grade for evaluation. All indications on the profile that can be achieved are based on our own test results, under supervised conditions on new mild steel with intact mill scale.

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## Material Specification and Applications

Grade	Grain Size/mm	Average Profile on Mild Steel (microns)	Typical Applications
1	0.10 – 0.40	1 - 15	Fine Polishing, De-Carbonising, Aluminium Surfaces, Glass Etching, Car Bodywork
2	0.10 – 0.80	24 – 45	Wetblasting, Natural Stonework, Brickwork, Graffiti Removal, Wood Profiling, Stainless Steel
3	0.25 – 1.40	70 – 100	Steelwork pipes, Tanks. This grade suit 75% of all applications
4	0.25 – 2.00	85 – 130	Highly corroded steel. Under Water Blasting
5	1.40 – 2.20	100 - 140	Marine Application, Concrete Repair & Profiling

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