



TECHNICAL DATA SHEET

Product: Filtration Garnet

Uses As a component of multi-media filter systems for fine filtration.

Physical Properties:

Specific Gravity (reference water at 20°C)	4.0
Bulk density	2050 - 2250 kg.m ⁻³
Hardness	7 -8 Mohs
Grain Shape	Sub Angular
Attrition loss after 100 hrs. Backwash	1% maximum
Solubility in 20% HCl at 20°C	2% maximum

Chemical Properties

Typical Chemical Analysis

SiO ₂	37%	Al ₂ O ₃	21 %
FeO	1.5%	Fe ₂ O ₃	30%
CaO	1.2%	Free silica	<0.5%
MgO	6%		

Mineralogy A natural almandine garnet of chemical formula Fe₃Al₂(SiO₄)₃.

Particle Size 300-600 micron. A maximum of 5% of the product is coarser than 600micron and a maximum of 5% of the product is finer than 300micron. Other sizes are available for both filtration and support applications.

Method of Use This type of garnet is usually employed as a layer beneath BS16/30 sand in multi-media filters to provide a means to filter out fine particles which may not be retained by the sand.

Industry Standards Complies with BS EN 12910, Products used for treatment of water intended for human consumption — Garnet.

Packing 25 kg bags palletised and shrink-wrapped.

Further Information. Specific enquiries relating to the application and use of garnet may be directed to

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