



TECHNICAL DATA SHEET

Product: Support Garnet

Uses As a support for filtration grade garnet in multi-media filters.

Physical Properties:

Specific Gravity (reference water at 20°C)	3.9
Bulk density	2040 kg.m ⁻³
Hardness	7 -8 Mohs
Grain Shape	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	36.0%	Fe ₂ O ₃	31.1 %
CaO	26.0%	Al ₂ O ₃	2.9%
MgO	1.0%	TiO ₂	1.0%
MnO	1.0%	Free silica	<0.5%

Mineralogy A natural andradite garnet of chemical formula $\text{Ca}_3\text{Fe}^{2+}_2(\text{SiO}_4)_3$

Particle Size 1.40-2.36mm. A maximum of 10% of the product is coarser than 2.36mm and a maximum of 10% of the product is finer than 1.40mm. Other sizes are available for both filtration and support applications.

Method of Use This type of garnet is usually employed as a support layer beneath a layer of filtration garnet (usually 300 - 600 microns) in multi-media filters. The support garnet may itself be supported on a layer of appropriately sized gravel or may form the base layer of a multi-media filter depending on the filter design.

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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