



Technical Data



HARCOURT MINERALS

Coarse Support Garnet (1.4mm–2.36mm)

Used as a support layer in multi-media filter systems.

Physical Analysis (typical):

Property	Value
Specific Gravity (reference water at 20°C)	3.97
Bulk density	2100 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 Analysis (typical):

Property	Value	Property	Value
SiO ₂	36%	Al ₂ O ₃	20%
FeO	20%	Fe ₂ O ₃	9%
MgO	5%	TiO ₂	1.5%
CaO	7%	Free silica	<0.5%

Mineralogy

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

Industry Standards

Complies with BS EN 12910:2005 Products used for treatment of water intended for human consumption – Garnet.

Packing

25 kg bags palletised and shrink-wrapped.



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