Technical Data

HARCOURT MINERALS

Fine Filtration Garnet (0.35mm–0.6mm)

Used as a component of multi-media filter systems for fine filtration.

Physical Analysis (typical):

Property	Value
Specific Gravity (reference water at 20°C)	4.1
Bulk density	2300 kg.m^{-3}
Hardness	7 -8 Mohs
Grain Shape	Sub Angular
Attrition loss after 100 hrs. Backwash	1% maximum
Solubility in 20% HCI at 20°C	2% maximum

Chemical Analysis (typical):

Property	Value	Property	Value
SiO_2	36%	Al_2O_3	20%
FeO	20%	Fe_2O^3	9%
MgO	5%	TiO_2	1.5%
CaO	7%	Free silica	<0.5%

Mineralogy A natural almandine garnet of chemical formula $Fe_3Al_2(SiO_4)_3$.

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 in order to provide a means of filtering out fine particles which may not be retained by the sand. Filtration garnet is usually supported on a layer of coarse support garnet.

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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