

We care your needs

GARNET FOR FILTRATION SYSTEM

Almandite garnet is a high hardness, high density granular filter media. It can be used extremely effectively as the lower strata in a dual media filter bed. Its high specific gravity as well as its chemical and abrasive resistance makes almandite garnet ideal for filtration. An effective multi-media filter system will utilize larger sized media on top to filter out the larger particulates and smaller sized media to filter out the smaller particulates. Garnet, with its high density, is heavier than most other filter media. Garnet's higher density provides stability within your dual media bed, allowing the filter sized garnet to filter down to 10 - 20 micron particulates

Mineral Composition

Garnet (Almandite)		98%
Ilmenite	less than	1.5%
Others	less than	0.5%

Average Chemical Composition

SiO ₂ Al ₂ O ₃ FeO Fe ₂ O ₃	20% 30%
TiÓ2	
MnO	0.45%
CaO	8.30%
MgO	9.73%

Characteristics

Bulk Density Specific Gravity	
Hardness (Moh)	7.5 - 8
Melting Point	1260ºc
Grain Shape	Sub- angular
Conductivity	10- 25 mS/m
Appearance	Reddish Purple
Chlorides	max 25ppm
Solubility	Insoluble

Operational Specifications

Bed depth: 3 - 12 in.

Freeboard: 40 – 50% of bed depth (min.) Service flow rate: 3 – 5 gpm/sq. ft.

Backwash flow rate: 15 – 20 gpm/sq. ft.
Backwash expansion rate: 30% of the bed

depth

Packing Information

Origin : India / China

Packing : In 25 kg or 12.5 liters per bag

In 1000 kg per Jumbo Bag

Mesh Size : #30/60, #20/40, #12/25, #8/12



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