

Garnet Sand

Applications

High density filter systems in multi – media filtration systems.

Characteristics

Grain Shape	Sub-angular
Specific Gravity	4.00
Bulk Density	2.00 / 2.40 tonnes / m ³
Hardness	7.5 Moh

Chemical Analysis

		%
Silica	SiO₂	36.1
Alumina	Al₂O₃	26.4
Iron	FeO	29.8
Iron	FE₂O₃	1.70
Magnesium	MgO	2.0
Calcium	CaO	1.55
Manganese	MnO₂	1.05
Titanium Dioxide	TiO₂	1.8

Grades Available are 0.3-0.6mm and 1.4-2.36mm

Advantages

- High specific gravity gives more control during critical backwash operations, less media loss to the overflow tanks.
- Angular grains give more pore space than rounded grains.
- Garnet is naturally hard, durable mineral so its breakdown rate is very small.

Health Hazard

All Garnet Sands are washed in processing and contain little or no respirable silica.

Fire Hazard	None
Explosive Hazard	None
Corrosion Hazard	None

ISSUE DATE JUNE 2019

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