



GARNET SAND FILTER MEDIA



ADVANTAGES

- **High Filtration Efficiency:** Garnet sand filter media offers excellent particle removal, ensuring clean and clear water.
- **Chemical Inertness:** It is chemically stable, resistant to corrosion, and does not react with water or most chemicals.
- **Uniform Particle Size:** Garnet sand has a uniform particle size distribution, optimizing filtration performance.
- **Long Service Life:** It has a durable composition, resulting in a longer operational lifespan.
- **Environmentally Friendly:** Garnet is a natural, eco-friendly filter media, free from harmful additives.

PHYSICAL PROPERTIES

- **Particle Size:** 0.4 - 0.7 mm
- **Specific Gravity:** 3.8 - 4.3 g/cm³
- **Hardness (Mohs Scale):** 7.5 - 8.0
- **Color:** Red to reddish-brown
- **Angularity:** Sub-angular to sub-rounded
- **Acid Solubility:** < 1.0%
- **Bulk Density:** 2.35 g/cm³
- **Porosity:** < 40%
- **Moisture Content:** < 0.5%

CONDITIONS FOR OPERATIONS

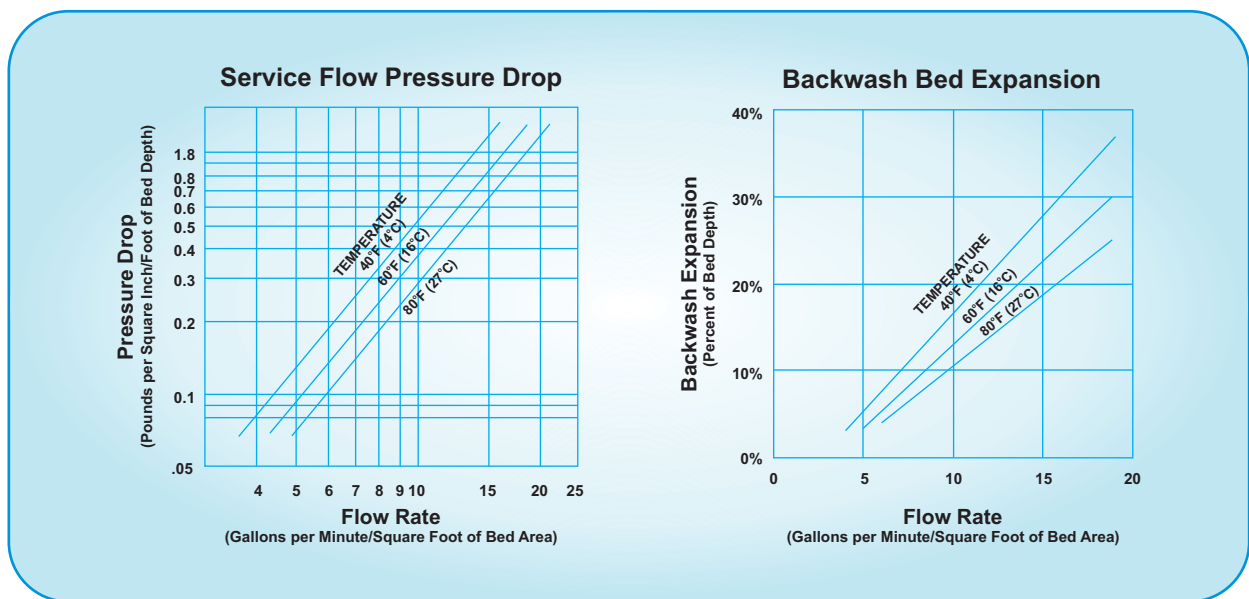
- **Recommended Filtration Velocity:** 12 - 37 (m/h)
- **Maximum Operating Pressure:** 100 psi
- **pH Range:** 6.0 - 8.0
- **Backwash Flow Rate:** 30-37 (m/h)
- **Bed Depth:** 24 - 36 inches
- **Service Flow Rate:** As per system design

CHEMICAL ANALYSIS

- **Silica (SiO₂)** 36.60
- **Aluminium Oxide (Al₂O₃)** 25.70
- **Loss on ignition (LOI)** 0.22
- **Iron Oxide (Fe₂O₃)** 32.6
- **Magnesium Oxide (MgO)** 0.43
- **Calcium Oxide (CaO)** 2.26
- **Titanium Dioxide (TiO₂)** 0.34
- **Sodium Oxide (Na₂O)** 0.89
- **Potassium Oxide (K₂O)** 0.25
- **Manganese Oxide (MnO)** 0.26
- **Sulphate (SO₃)** 0.01
- **Phosphorus (P₂O₅)** 0.11
- **Chloride (Cl)** 0.006

STORAGE AND MATERIAL HANDLING INSTRUCTIONS

- **Storage:** Store in a dry, covered area to prevent moisture absorption and contamination.
- **Handling:** Wear appropriate protective equipment, such as gloves and goggles, when handling the media.
- **Transport:** Use suitable containers or bags to prevent spillage during transportation.
- **Avoid Abrasion:** Avoid excessive handling, as abrasive action may generate dust.
- **Safety:** Follow local regulations for safe storage and handling of abrasive materials.



ORDERING INFORMATION

Description	Cu.Ft / Bag	Wt. / Cu.Ft	Bags / Pallet	Weight / Pallet	Pallet Dimensions
Garnet 0.4 - 0.7 mm	25 Kg	65 Kgs	40	1015 Kgs	45" x 45" x 28"

*Weight Per Cubic Foot is Approximate.

* Custom Sizes and Packaging Available Upon Request

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