

FILTRATION MEDIA



GARNET

SWT's Garnet is a high-density water filtration media used to remove fine particulate and keeps the silica gravel bed static during rigorous backwash. In a multi-media filter, garnet sand is the finest layer and is located below the filter sand layer. Due to its high specific gravity, the garnet remains in its position in the filter - even after backwashing. Coarse garnet sizes are available for support layers. Meets or exceeds all ASI, AWWA, or ASME standards and protocols. UL Certified to NSF/ANSI Standard 61.

FEATURES

- Chemical and abrasive resistant
- Chemically inert and nonmetallic
- High hardness for minimum attrition
- International shipping
- Packaging in 50 lb. bags or supersacks
- Ideal media for water filtration

Typical Properties

Color.....Dark Pink, Red, Purple, Brown
 Apparent Specific Gravity..... ≥ 3.8
 Hardness.....7.0 - 8.0 (Mohs scale)
 Source of MaterialUSA or India
 Acid Solubility1% maximum
 Free Silica Content0.5% maximum
 Net Weight120 - 151 lbs lb per cu.ft.
 Available Sizes#8 - #80

| Sieve U.S. Standard | μm | #8 | #8/12 | #12 | #20/40 | #36 | #30-40 | #50 | #60 | #80 |
|---------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 6 | 3350 | 0.0 | 0.0 | 0.0 | | | | | | |
| 7 | 2800 | 2.8 | 0.9 | 1.2 | | | | | | |
| 8 | 2360 | 36.9 | 17.2 | 7.2 | | | | | | |
| 10 | 2000 | 53.8 | 60.7 | 40.2 | | | | | | |
| 12 | 1700 | 5.4 | 17.6 | 30.7 | | | | | | |
| 14 | 1400 | 0.8 | 2.8 | 17.6 | | | | | | |
| 16 | 1180 | 0.1 | 0.3 | 2.3 | | | | | | |
| 18 | 1000 | 0.2 | 0.5 | 0.7 | | 0.6 | | | | |
| 20 | 850 | | | | 0.0 | 8.1 | | | | |
| 25 | 710 | | | | 0.5 | 43.6 | 0.3 | | | |
| 30 | 600 | | | | 20.4 | 22.9 | 2.2 | 0.8 | | |
| 35 | 500 | | | | 70.6 | 20.1 | 23.4 | 0.9 | | |
| 40 | 425 | | | | 7.8 | 3.5 | 38.1 | 0.9 | 0.0 | |
| 45 | 355 | | | | 0.6 | 0.9 | 33.0 | 51.2 | 23.2 | 0.1 |
| 50 | 300 | | | | 0.1 | 0.3 | 2.6 | 31.1 | 53.3 | 6.3 |
| 60 | 250 | | | | | | 0.4 | 11.7 | 17 | 31.4 |
| 70 | 212 | | | | | | 0.0 | 2.7 | 5.4 | 41.0 |
| 80 | 180 | | | | | | | 0.3 | 0.7 | 16.1 |
| 100 | 150 | | | | | | | 0.4 | 0.3 | 5.0 |
| 120 | 125 | | | | | | | | 0.1 | 0.1 |
| Bulk Density (lb per cubic foot) | | 140 | 140 | 140 | 136 | 136 | 130 | 130 | 126 | 126 |
| Effective size (typical) | | 2.04 mm | 1.85 mm | 1.54 mm | 0.50 mm | 0.53 mm | 0.37 mm | 0.29 mm | 0.27 mm | 0.19 mm |
| Effective Size: specification | | 1.90-2.20 | 1.65-2.00 | 1.45-1.70 | 0.45-0.55 | 0.50-0.65 | 0.30-0.40 | 0.25-0.35 | 0.20-0.30 | 0.15-0.25 |
| Uniformity Coefficient (typical) | | 1.17 | 1.21 | 1.35 | 1.12 | 1.40 | 1.26 | 1.29 | 1.25 | 1.30 |
| Uniformity Coefficient: specification | | 1.30 max | 1.50 max | 1.50 max | 1.40 max | 1.50 max | 1.40 max | 1.40 max | 1.50 max | 1.70 max |
| Specific Gravity 3.80 g/cm ³ minimum | | Material meets AWWA Standard B100-96 | | | | | | | | |
| ** Material is UL Certified in accordance with ANSI/NSF Standard 61, Drinking Water System Components * | | | | | | | | | | |

| Symbol | SiO ₂ | Fe ₂ O ₃ | CaO | Al ₂ O ₃ | MgO | MnO | TiO ₂ |
|------------|------------------|--------------------------------|------------------|--------------------------------|--------------------|--------------------|------------------|
| Name | Silicon Dioxide | Iron Oxide | Calcium Monoxide | Aluminum Oxide | Magnesium Monoxide | Manganese Monoxide | Titanium Dioxide |
| Percentage | 36.0% | 31.1% | 26.0% | 2.9% | 1.0% | 1.0% | 1.0% |

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