

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%

This information has been gathered from standard materials and/or test data that is believed to be accurate and reliable. Nothing herein shall be determined to be a warranty or representation expressed or implied with respect to the use of such information or the use of the goods described for any particular purpose alone or in combination with other goods or processes, or that their use does not conflict with existing patent rights. No license is granted to practice any patented invention. It is solely for your consideration, investigation and verification.