

## International Garnet for Water Filtration

### BENEFITS OF INTERNATIONAL GARNET:

- UL/NSF approved
- High Density product
- Custom screens sizes available

### OPTA MINERALS for all your WATER FILTRATION needs:

- Municipal Filtration Sand
- Industrial Filtration Sand
- Galaxy Garnet
- International Garnet
- Municipal Filtration Sand
- Crushed Glass
- Pool Filtration Sand

### Information Bulletin

International Garnet is mined as a by-product in a mineral mining process. In our state of the art facility in Keeseville, NY, the Garnet is crushed, screened and packaged as per customer's requirements.

International Garnet is a HIGH DENSITY Garnet for use in Municipality and Industrial water filtration systems.

#### Packaging:

50lb paper bags: 40 bags/pallet  
In 2000lb supersacs

#### Available sizes:

#### Technical Physical Properties:

Bulk Density: 140lbs/ft<sup>3</sup>  
Specific Gravity: 3.80 g/cm<sup>3</sup>  
Hardness: 7.0- 7.5 Mohs  
Shape of Grains: angular  
Color: dark brown/red  
Free Silica: none

**OPTA MINERALS has production and warehouse facilities in the following locations:**

Waterdown, ON; Lachine, QC;  
St-Bruno-de-Guigues, QC; Brantford, ON;  
St-Germain-de-Grantham, QC; Norfolk, VA;  
New Orleans, LA; Los Angeles, CA;  
Hardeeville, SC; Attica, NY; Baltimore, MD;  
Keeseville, NY; Walkerton, IN; Milan, MI;  
Richfield, OH.

Sieve U.S. Standard Certification ** see note bottom of page	Microns	#8	#8/12	#12	#20/40	#36	#30/40	#50	#60	#80
6	3350	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	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
140	106									
170	90									
200	75									
230	63									
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<sup>3</sup> minimum. Material meets AWWA Standard B100-96

\*\*\* Material is UL Certified in accordance with ANSI/NSF Standard 61, Drinking Water System Components \*\*