



**Opta Minerals is your source for Waterjet Cutting Products:**

- Galaxy Garnet
- Galaxy Garnet 80S
- International Garnet
- Jetcut 80S
- Bengal Bay Garnet
- Kerfjet Garnet
- Ecojet Garnet
- Wesjet Garnet

## Bengal Bay Garnet for Waterjet Cutting

Bengal Bay is our premium almandine Garnet and is mined from the beaches in Southern India.

During the production process, it passes through multi stages of fresh-water washing. All non-garnet elements have been removed by means of magnetic separation. We offer a selection of four carefully screened waterjet cutting grades.

Over the years, Bengal Bay Garnet has established a world-wide reputation as one of the best Garnets for waterjet cutting. Bengal Bay Garnet has the lowest count of suspended solids, which guarantees problem-free cutting at ultra-fast cutting speeds and offers high-precision finishes.

### ADVANTAGES OF BENGAL BAY GARNET

- Unlimited resources and large inventories
- Very clean; washed with fresh water
- High-precision finish
- Fast cutting speed
- Available from various warehouse locations in USA, Canada, Europe and Middle East

### AVAILABLE SIZES

MM	US Mesh	#50	#80(Q1)	#80(Q2)	#120
0.850	20				
0.600	30	0-5			
0.425	40	15-40	0	0 - 5	
0.300	50	40-80	5-15	15-35	
0.250	60	0-25	25-40	20-40	
0.180	80	0-10	35-60	25-60	15-50
0.150	100		0-10	5-15	
0.125	120	0-5			40-85
PAN			0-5	0-5	0.5
% of Garnet (average)		99.50	98.00	98.00	98.00
Conductivity (uS/cm)	Typical	72.83	87.65	87.65	103.62
	Guaranteed	250	250	250	250
Chloride (ppm)	Typical	8.91	10.39	10.39	13.4
	Guaranteed	30	50	50	50
Suspended Solids (mg/l)	Guaranteed	<1500	<1500	<2000	<1500

### Contact Us

Contact us today and let our experienced sales team help you find the right product to meet your needs. For more information please call us:  
 Toll-free: 1-888-689-6661  
 Tel: (905) 689-6661  
 Email: info@optaminerals.com  
 www.optaminerals.com

Conductivity (uS/cm): Refers to the presence of ionic contamination on the abrasive grain's surface

Chloride (ppm): Refers to the amount of chlorides and other soluble salts on an abrasive

Suspended Solids (mg/l): Refers to the tiny particles, which are only visible when Garnet is put into water and shaken

#### TECHNICAL SPECIFICATIONS

Symbol	Name	Percentage
SiO <sub>2</sub>	Silicon Dioxide	25-40
Fe <sub>2</sub> O <sub>3</sub>	Iron Oxide	34-45
Al <sub>2</sub> O <sub>3</sub>	Aluminium Oxide	13-20
MgO	Magnesium Oxide	4-6
CaO	Calcium Oxide	0.5-2.5
MnO	Manganese Oxide	0.2-0.8
TiO <sub>2</sub>	Titanium Dioxide	1-7
SiO <sub>2</sub>	Crystalline Silica	< 1

#### CHARACTERISTICS

<b>Specific Gravity:</b>	min. 4.0
<b>Bulk Density:</b>	2.4 g/cm <sup>3</sup>
<b>Hardness:</b>	7.5 Mohs

#### PACKAGING:

- 55 lb. or 25 kg paper bags; 55 lb. or 25 kg polypropylene bags in a super sac
- 1 MT (2200 lb.) in a super sac