



Technical Data and Physical Characteristics For Bengal Bay and Ecojet Garnet

Mineral Composition

| | |
|--------------------------|--------|
| Garnet (Almandine) | 97-98% |
| Ilmenite | <2% |
| Other | < 1% |

Chemical Composition

Major Constituents

| | |
|-----------------|--|
| Almandine | $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$ |
|-----------------|--|

Physical Properties

| | |
|------------------------|---------------------------|
| Specific Gravity | 4.0—4.1 g/cm ³ |
| Hardness (Mohs) | 7.5—8.0 |
| Melting Point | 1315°C |

Other Characteristics

| | |
|------------------------------------|---------------------------------|
| Conductivity | < 250 uS/cm |
| Chlorides | < 25 ppm |
| Radioactivity | not detectable above background |
| Water Reactivity | insoluble, non-hygroscopic |
| Acid Solubility | < 1% |
| Weight Change on Ignition (%)..... | 0.0 (Typical) |
| Free Silica | < 1% |
| Total Dissolved Solids | < 1200 ppm (BBG 120 <1600 ppm) |

Garnet is a natural product, therefore its chemical analysis may vary.