



# TANO MINERALS

## GARNET ABRASIVE 80#

### Chemical Composition

| Elements                       | Standard (%) | Typical (%) |
|--------------------------------|--------------|-------------|
| CaO                            | 1.0-3.0      | 2.11        |
| MgO                            | 3.0-8.0      | 3.48        |
| Al <sub>2</sub> O <sub>3</sub> | 19.0-22.0    | 20.82       |
| Fe <sub>2</sub> O <sub>3</sub> | 31.0-37.0    | 36.5        |
| SiO <sub>2</sub>               | 33.0-37.0    | 34.86       |
| TiO <sub>2</sub>               | 0.20-2.0     | 1.62        |

### Physical Characteristics

| Parameters             | Standard                      | Typical                |
|------------------------|-------------------------------|------------------------|
| Bulk Density           | 2.20 – 2.40 g/cm <sup>3</sup> | 2.32 g/cm <sup>3</sup> |
| Hardness               | Min 7 Moh                     | 7 Moh                  |
| Chloride               | Max 25 ppm                    | 18 ppm                 |
| Total Suspended Solids | Max 2000 mg/l                 | 1750 mg/l              |
| Conductivity           | Max 250 µs/cm                 | 145 µs/cm at 25.5°C    |
| Moisture Absorption    | Max 0.20 %                    | 0.13 %                 |

### Mineral Composition

| Mineral  | %      |
|----------|--------|
| Garnet   | Min 97 |
| Ilmenite | < 2    |
| Monazite | < 0.25 |
| Others   | < 0.75 |

### Sieve Analysis Report

| ASTM | MM    | Actual (%) | Cum (%) |
|------|-------|------------|---------|
| 50   | 0.300 | 4.45       | 4.45    |
| 60   | 0.250 | 35.90      | 40.35   |
| 80   | 0.180 | 44.80      | 85.15   |
| 100  | 0.150 | 8.5        | 93.65   |
| 120  | 0.125 | 4.58       | 98.23   |
| Pan  |       | 1.77       | 100.00  |



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