

## Garuda – #80 Garnet Specification

### Particle Size Analysis Report

| Mesh | MM    | Retained %   |          |
|------|-------|--------------|----------|
|      |       | Guaranteed % | Actual % |
| 40   | 0.425 | < 0.20       | 00.08    |
| 50   | 0.300 | 0 ~ 5        | 00.60    |
| 60   | 0.250 | 10 ~ 20      | 12.42    |
| 80   | 0.180 | 50 ~ 80      | 70.70    |
| 100  | 0.150 | 10 ~ 20      | 14.28    |
| 120  | 0.125 | < 5          | 01.92    |

### Mineralogical Report

| Minerals | Guaranteed %  | Actual % |
|----------|---------------|----------|
| Garnet   | Min 97.50%    | 98.28 %  |
| Ilmenite | Max - 01.00 % | 00.92 %  |
| Others   | Max - 01.50 % | 00.80 %  |

### Physical Analysis Report

| Parameter        | Guaranteed                  | Actual                |
|------------------|-----------------------------|-----------------------|
| Specific Gravity | 4.0 ~ 4.3                   | 4.2                   |
| Bulk Density     | 2.0 ~ 2.6 g/cm <sup>3</sup> | 2.3 g/cm <sup>3</sup> |
| Conductivity     | Max 15 mS/m                 | 10.50 mS/m            |
| Chloride         | Max 25 ppm                  | 20.72 ppm             |

### Chemical Content

| Elements                       | Guaranteed % | Actual % |
|--------------------------------|--------------|----------|
| SiO <sub>2</sub>               | 35.0 ~ 40.0  | 38.90    |
| Al <sub>2</sub> O <sub>3</sub> | 18.0 ~ 22.0  | 19.70    |
| Fe <sub>2</sub> O <sub>3</sub> | 30.0 ~ 35.0  | 32.70    |
| MgO                            | 1 ~ 2.0      | 1.16     |
| CaO                            | 6.0 ~ 7.0    | 6.01     |
| TiO <sub>2</sub>               | 0 ~ 1        | 0.43     |

\*Garnet being a natural product, its analysis is expected to vary periodically and between deposits