

## Garuda – #14~30 Garnet Specification

### Particle Size Analysis Report

| Mesh | MM    | Retained %   |          |
|------|-------|--------------|----------|
|      |       | Guaranteed % | Actual % |
| 10   | 2.000 | Nil          | Nil      |
| 18   | 1.000 | 0 ~ 10       | 09.88    |
| 20   | 0.850 | 10 ~ 20      | 16.38    |
| 30   | 0.600 | 60 ~ 80      | 67.44    |
| 40   | 0.425 | 0 ~ 10       | 06.30    |

### Mineralogical Report

| Minerals | Guaranteed %  | Actual % |
|----------|---------------|----------|
| Garnet   | Min 99.50%    | 99.90 %  |
| Ilmenite | Max - 00.25 % | 00.10 %  |
| Others   | Max - 00.25 % | 00.10 %  |

### Physical Analysis Report

| Parameter        | Guaranteed                  | Actual                 |
|------------------|-----------------------------|------------------------|
| Specific Gravity | 4.0 ~ 4.3                   | 4.26                   |
| Bulk Density     | 2.0 ~ 2.6 g/cm <sup>3</sup> | 2.40 g/cm <sup>3</sup> |
| Conductivity     | Max 15 mS/m                 | 11.74 mS/m             |
| Chloride         | Max 25 ppm                  | 20.60 ppm              |

### Chemical Content

| Elements                       | Guaranteed % | Actual % |
|--------------------------------|--------------|----------|
| SiO <sub>2</sub>               | 35.0 ~ 40.0  | 39.50    |
| Al <sub>2</sub> O <sub>3</sub> | 18.0 ~ 22.0  | 19.50    |
| Fe <sub>2</sub> O <sub>3</sub> | 30.0 ~ 35.0  | 32.40    |
| MgO                            | 1 ~ 2.0      | 01.06    |
| CaO                            | 6.0 ~ 7.0    | 06.11    |
| TiO <sub>2</sub>               | 0 ~ 1        | 00.30    |

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