

TOKALEV Garnet

Abrasives for Sandblasting & Waterjet cutting

Garnet (220 mesh)



Type : **ALMANDINE**

General Description : Garnet a homogeneous mineral, contains no free chemicals. All oxides and dioxides are combined chemically as follows : $Fe_2O_3 \cdot Al_2O_3 \cdot (SiO_2)_3$. The iron and aluminum are partially replaceable by calcium, magnesium and manganese.

Typical chemical analysis

| Elements | Specification (%) |
|--------------------------------|-------------------|
| SiO ₂ | 32 - 40 |
| Fe ₂ O ₃ | 28 - 35 |
| Al ₂ O ₃ | 18 - 24 |
| MgO | 5.0 - 9.0 |
| CaO | 1.0 - 3.0 |
| TiO ₂ | 1.0 - 2.0 |
| Others | 0.0 - 3.0 |

Sieve Analysis

| Mesh | Range (%) |
|------|-----------|
| 120 | 0 - 1 |
| 140 | 5 - 8 |
| 170 | 52 - 56 |
| 200 | 27 - 29 |
| 230 | 6 - 8 |

Physical properties

| | |
|--------------------|---|
| Hardness : | > 7 mohs |
| Conductivity : | < 15 mS/m |
| Particle shape : | Sharp, angular, irregular |
| Cleavage : | Pronounced laminations, irregular cleavage planes |
| Color : | Red to pink |
| Streaks : | White |
| Transparency : | Translucent |
| Chloride : | 9 - 15 ppm |
| Specific Gravity : | 4.1 - 4.3 |

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Consistent supply

Superior Quality

Customer Focus

Technical Expertise

Environment Friendly

Contact us :
marketing@tokalev.com



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Physical properties

| | |
|-------------------------------|---|
| Lustre : | Vitreous |
| Mean Refractive Index : | 1.83 |
| Facet Angles : | 37°C and 42°P |
| Crystallization : | Cubic (isometric) system as rhombic dodecahedrons or tetragonal trisoctahedrons or in combinations of the two |
| Melting Point : | 1,250°C |
| Moisture Content : | 0.04% |
| Oil Content : | Traces |
| pH Value : | 7.65 |
| Bulk Density : | 1.81 gm/cm ³ |
| Garnet : | 97.5 to 98.5% |
| Ilmenite : | 0.3 to 0.5% |
| Quartz : | 0.5 to 0.7% |
| Others : | 0.5 to 1.0% |
| Magnetism : | Slightly magnetic (Volume susceptibility : 9.999375) |
| Electrostatic properties : | a) Mineral conductivity : 18,000 volts b) Non reversible |
| Moisture Absorption : | Non-hygroscopic, inert |
| Dispersion : | Self-dispersing |
| Uniformity : | All Garnet mineral in this deposit was formed simultaneously under identical natural conditions and has been proven uniform throughout during over 18 years of use in technical abrasive applications |
| Pathological effects : | None |
| Harmful Free Silica Content : | None (Silicosis free) |

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