The TOKALEV Advantage

- Consistent supply
- Superior Quality
- Customer Focus
- Technical Expertise
- Environment Friendly

TOKALEV Abrasives

TOKALEV Garnet

Abrasives for Sandblasting &
Waterjet cutting

TOKALEV

Garnet (120) mesh)

Type : **ALMANDINE**

General Description : Garnet a homogeneous mineral, contains no free chemicals. All oxides and dioxides are combined chemically as follows : Fe203Ah(Si04)3. The iron and aluminum are partially replaceable by calcium, magnesium and manganese.

Typical chemical analysis

Elements	Specification (%)
SiO2	32 - 40
Fe2O3	28 - 35
Al2O3	18 - 24
MgO	5.0 - 9.0
CaO	1.0 - 3.0
TiO2	1.0 - 2.0
Others	0.0 - 3.0

Sieve Analysis

Mesh	Range (%)
60	0
80	15 - 50
120	40 - 85

Physical properties

Hardness :	> 7 mohs
Strength :	Friable to tough
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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Physical properties

Lustre :	Vitreous
Mean Refractive Index :	1.83
Facet Angles :	37°C and 42°P
Crystallization :	Cubic (isometric) system as rhombic dodeca--hedrons 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 :	2.25 gm/ml
Garnet :	97.5 to 98.5%
Ilmenite :	0.3 to 98.5%
Quartz :	0.5 to 1.0%
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)