

## Technical Data & Physical Characteristics ADIRONDACK® Garnet Abrasives

### MINERAL COMPOSITION

Garnet  
Almandine, Pyrope & Grossular .. 92–96%

Other Minerals  
Magnetite, Hornblende, Feldspar,  
Mica, Other ..... 4–8%

### CHEMICAL COMPOSITION

Almandine .....  $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$

Pyrope .....  $\text{Mg}_3\text{Al}_2(\text{SiO}_4)_3$

### PHYSICAL PROPERTIES

Specific Gravity ..... 3.9–4.1 g/cm<sup>3</sup>

Hardness (Mohs) ..... 7.5–8.5

Strength ..... Friable to tough

Particle Shape ..... Sharp, angular,  
..... irregular

Color ..... Red to pink

Crystallization.....  
Cubic (isometric) system as rhombic  
dodecahedrons or tetragonal  
trisoctahedrons (trapezohedrons) or  
in combinations of the two.

### OTHER CHARACTERISTICS

Conductivity ..... <25 ms/m

Radioactivity ..... Diffuse NORM

Moisture Absorption ..... Non-hygroscopic

Chlorides ..... <25 ppm

Free Crystalline Silica ..... <1%

Respirable Free Quartz ..... <0.1%

Melting Point ..... 1,315° C

Reactivity ..... Inert

Magnetism ..... Slightly magnetic  
(Volume susceptibility = 9.999375)

Electrostatic Properties.....  
Mineral conductivity—18,000 volts  
Non-reversible

Garnet is a natural product; therefore, its chemical analysis will vary.

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# BARTON