

# TECHNICAL DATA

## Technical Data & Physical Characteristics ADIRONDACK® HPX® Garnet Abrasives

### MINERAL COMPOSITION

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

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

Non-Respirable Free  
Crystalline Silica .....< 1%

### CHEMICAL COMPOSITION

Almandine.....Fe3Al2(SiO4)3

Pyrope.....Mg3Al2(SiO4)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

Garnet is a natural product; therefore, its chemical analysis will vary. 2021-01

### OTHER CHARACTERISTICS

Conductivity.....< 290 ms/cm

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