



## TECHNICAL DATA SHEET

Revision: August 18, 2020

### RockRidge Garnet

RockRidge Garnet offers a wide array of sizes in order to ensure maximum performance for a variety of blasting and water jet cutting applications.

Our garnet is a naturally occurring mineral that is composed mainly of Almandine. This material is known for its natural hardness and durability, which allows for increased efficiency in many abrasive applications.

RockRidge Garnet is environmentally inert and meets all Occupational Health and Safety Administration (OSHA) requirements. RockRidge Garnet also meets all ISO11126-10:200 requirements for chloride and free silica content.

### Typical Mineral Content

Mineral	%
Almandine	90.0 - 97.0
Ilmenite	1.0 - 2.0
Pyroxene	1.25 - 1.75
Rutile	0.5 - 1.0
Quartz	< 0.1
Hornblende	< 0.5

### Typical Sizing

#### 20/40

Sieve	µm	%
18	1000	0
20	850	0-5
30	600	10-20
35	500	65-75
40	425	8-15
-40	-425	3-7

#### 30/60

Sieve	µm	%
20	850	0
30	600	5-15
35	500	25-35
40	425	20-30
50	300	25-35
60	250	0-10
-60	-250	0-3

### Typical Physical Characteristics

Specific Gravity	3.8 - 4.1
Bulk Density	2.1 - 2.4 g/cm <sup>3</sup>
Mohs Hardness	7.5 - 8.0
Color	Dark Red / Pink
Grain Shape	Sub Angular
Conductivity	< 25 ms/m
Acid Solubility (HCl)	< 1.0 %

### Typical Chemical Composition

Fe <sub>2</sub> O <sub>3</sub>	10.0 - 12.0
SiO <sub>2</sub>	40.0 - 42.0
TiO <sub>2</sub>	1.5 - 3.5
Al <sub>2</sub> O <sub>3</sub>	18.0 - 20.0
Fe <sub>2</sub> O	13.5 - 14.5
CaO	10.0 - 11.0
MgO	5.5 - 6.5
MnO	< 0.2
Sol. Cl	< 40 ppm

## Typical Sizing, Cont.

### 50

Sieve	μm	%
30	600	0
35	500	0-5
40	425	15-25
50	300	65-80
60	250	2-7
-60	-250	0-5

### 80

Sieve	μm	%
40	425	0
50	300	16-22
60	250	36-42
70	212	29-35
80	180	3-9
100	150	0-4
-100	-150	0-2

### 100

Sieve	μm	%
50	300	0
70	212	15-25
80	180	35-50
100	150	20-30
120	125	6-14
-120	-125	0-4

### 120

Sieve	μm	%
70	212	0
100	150	30-40
120	125	30-40
140	106	5-10
170	90	3-7
-170	-90	3-7

### 150

Sieve	μm	%
100	150	0
120	125	5-10
140	106	40-60
170	90	25-40
200	75	5-10
230	63	1-3
-230	-63	0-3

Note: Custom and other sizes are available upon request.

For any questions or concerns, please contact  
 RockRidge Abrasives at:  
 855-883-6245 or [sales@rockridgeabrasives.com](mailto:sales@rockridgeabrasives.com)