

Garnet - Technical Data

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 Chemical Composition

Fe₂O₃	10.0 - 12.0
SiO₂	40.0 - 42.0
TiO₂	1.5 - 3.5
Al₂O₃	18.0 - 20.0
Fe₂O	13.5 - 14.5
CaO	10.0 - 11.0
MgO	5.5 - 6.5
MnO	< 0.2
Sol. Cl	< 40 ppm

Typical Physical Characteristics

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



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

Rock Ridge Garnet is environmentally inert and meets all Occupational Health and safety requirements. Rock ridge garnet also meets all ISO11126-10:200 requirements for chloride and free silica contents.

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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

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

30/60

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

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

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

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

For Business Inquires or any other questions please contact GNP Ceramics at: 716-759-6600 or E-mail Sales@gnpceramics.com