TECHNICAL DATA & PHYSICAL CHARACTERISTICS

Garnet

Chemical Composition

Almandite Garnet .....$Fe_3Al_2(SiO_4)_3$

SiO_2	36%	TiO_2	2%
Al_2O_3	20%	MnO	1%
FeO	30%	CaO	2%
$Fe2O_3$	2%	MgO	6%

Garnet, a homogenous mineral, contains no free chemicals, all oxides and dioxides are combined chemically.

Sizing

	GRADE				
U.S. Mesh	**#16**	**#36**	**30 x 60**	**80 Mesh**	**100 Mesh**
16	4	–	–	–	–
18	12	–	–	–	–
20	32	1	–	–	–
25	43	12	–	–	–
30	8	36	–	–	–
35	1	40	5	–	–
40	–	10	11	–	–
45	1	–	–	–	–
50	–	–	44	9	–
60	–	–	26	42	–
70	–	–	11	31	5
80	–	–	3	16	50
100	–	–	–	2	35
120	–	–	–	–	8
140	–	–	–	–	2

Blasting Conditions

Nozzle Pressure	90+ psi	Nozzle Size	#6 or larger
Work Distance	18 - 24 inches		

Mineral Composition

Garnet (Almandite)	›97.0%	Quartz	‹0.5%
Ilmenite	‹1.0%	Others	Trace

Physical Characteristics

Bulk Density	130-150 lbs/ft^3	Melting Point	1250ºC
Specific Gravity	4.0	Shape	Sub-rounded to sub-angular
Hardness (Mohs)	7.5	Reactivity	Inert

Other Characteristics

Radioactivity	Not detectable above background	Free Iron	‹0.01%
Moisture Absorption	Non-hydroscopic	Copper	‹0.01%
Total Chlorides	‹50 ppm	Other Heavy Metals	‹0.01%

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WARNING: Silicosis Warning - Breathing dust from silica sand causes silicosis, a fatal lung disease. Breathing dust during blasting operations may also cause asbestosis and/or other serious or fatal diseases. A NIOSH approved, well-maintained air-supplied respirator should be used by anyone blasting, anyone handling or using the sand and anyone in the area of the dust. Harmful dust can remain suspended in the air for long periods of time after the blasting has ceased causing death or serious injury.

Marco®

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