

Garnet Versa



TECHNICAL DATASHEET

Revision: May 14, 2025

Garnet Versa Abrasive

Garnet Versa is an almandine garnet abrasive designed to deliver reliable performance in sandblasting and industrial cutting applications. It is characterized by a naturally balanced mineral composition that ensures consistent behaviour across various working environments.

The garnet is composed of naturally occurring minerals and offers adequate hardness to meet standard industrial requirements. It is environmentally safe and non-hazardous under normal usage conditions.

Garnet Versa is engineered to maintain efficiency in routine and high-volume operations where consistent performance is essential.

Typical Physical Characteristics

Specific Gravity	3.6 – 3.9
Bulk Density	1.9 - 2.2 g/cm ³
Mohs Hardness	7.0 – 7.5
Color	Dark Red / Pink
Grain Shape	Sub Angular
Conductivity	< 250 µs/cm
PH	6.5:7.0

Typical Chemical Composition

Typical Mineral Content

Mineral	%
Almandine	75.0 - 85.0
Ilmenite	1.0 - 2.5
Pyroxene	1.5 – 2.0
Rutile	0.5 - 1.2
Quartz	< 0.1
Free silica	< 0.5

Fe ₂ O ₃	25.0 - 40.0
SiO ₂	22.0 - 30.0
TiO ₂	3.0 - 5.5
Al ₂ O ₃	14.0 - 20.0
CaO	2.5 – 4.0
MgO	1.5 - 3.0
MnO	3.5 – 7.5
Sol. Cl	< 20 ppm

Typical Sizing

36

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 - 10
40	425	15 - 30
50	300	45 - 55
60	250	5 - 10
-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