

DATA&PHYSICALCHARACTERISTICSFORGARNETABRASIVES

AverageChemicalComposition(wt%)

SiO ₂	36%
Al ₂ O ₃	20%
FeO.....	30%
Fe ₂ O ₃	2%
TiO ₂	2%
MnO.....	1%
CaO.....	2%
MgO.....	6%

RecommendedBlasting Conditions

Nozzle pressure ...	90+
psi Material flow	400-600 lbs/hr
Nozzlesize	#6or larger
Workdistance	18-24inches

MineralComposition(WarrantedLimit)

Garnet(Almandite)	+97.0%
Ilmenite.....	<2.0%
Zircon	<0.2%
Quartz.....	<0.1%
Others	<0.25%

PhysicalCharacteristics

Bulkdensity	140-150
lbs/ft ³ Specificgravity.....	4.1
Hardness(Mohs).....	7.5—8.5
Meltingpoint	1,250°C
Particleshape	Sub-roundedtosub-angular
Reactivity.....	Inert

OtherCharacteristics

Conductivity.....	10-15ms/m(max25ms/m)
Radioactivity.....	Notdetectableabovebackground
MoistureAbsorption.....	Non-hygroscopic
TotalChlorides	Lessthan50ppm
FreeIron.....	Lessthan0.01%
Copper.....	Lessthan0.01%
OtherHeavyMetals.....	Lessthan0.01%

GARNET PRO ABRASIVES PTY LTD

ABN 61647205883 ☎ +61 422 868 200

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GARNET ABRASIVE PARTICLE SIZE DISTRIBUTION

Screen Size Tyler / US	Opening Micron/Inch	Percent by Weight			
		36 CG	30 X60 Plus	80 Mesh	100 Mesh
20 /20	850/ .0331	1			
24 /25	710/ .0278	9			
28 /30	600/ .0234	32	4		
32 /35	500/ .0197	41	9		
35 /40	425/ .0165	14	14		
42 /45	355/ .0139	2	23	2	
48 /50	300/ .0117	1	19	13	
60 /60	250/ .0098		16	31	1
65 /70	212/ .0083		10	28	17
80 /80	180/ .0070		4	16	43
100/ 100	150/ .0059		1	8	26
115/ 120	125/ .0049			2	10
150/ 140	106/ .0041				2
170/ 170	90 / .0035				1

Particle size distributions are typical. Some variation exists. Columns may not add up to 100% due to rounding.

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REPORT OF ANALYSIS

	TOTAL CONTENT		SOLUBLE CONTENT	
	Allowable	Garnet	Allowable	Garnet
Antimony	0.05 %	<0.01%	15mg/1	<1mg/1
Arsenic	0.05	<0.001	5	<0.01
Barium	1.0	<0.001	100	<0.1
Beryllium	0.0075	<0.0001	0.75	<0.01
Cadmium	0.01	<0.001	1	<0.1
Chromium	0.25	<0.001	500	<0.1
Chromium(+6)	0.05	<0.002	5	<0.1
Cobalt	0.80	<0.001	80	<0.1
Copper	0.25	<0.001	25	<0.1
Fluoride	1.80	<0.01	180	<1.0
Lead	0.10	<0.01	5	<0.1
Mercury	0.002	<0.0001	0.2	<0.02
Molybdenum	0.35	<0.001	350	<0.1
Nickel	0.20	<0.001	20	<0.1
Selenium	0.01	<0.00001	1	<0.001
Silver	0.05	<0.0005	5	<0.05
Thallium	0.07	<0.005	7	<0.05
Vanadium	0.24	<0.001	24	<0.1
Zinc	0.50	<0.001	250	<0.1

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