



Garnet for Blast Cleaning

Opta Minerals your source for Blast Cleaning Abrasives:

- Aluminum Oxide
- Blackblast - Coal Slag
- Chilled Iron Grit
- Corn Cobs
- Ebonygrit - Copper Slag
- International Garnet
- Garnet
- Glass Beads
- Greengrit - Crushed glass
- Plastic Media
- Powerblast LS - Staurolite
- Super Steel Shot
- Super Steel Grit
- Ultrablast - Nickel Slag
- Walnut Shells
- Blast Cleaning Equipment

Contact Us

Our sales team is ready to help you to determine the right product for your job.
 For more information please call us:
 Toll-free: 888-689-6661
 Tel: 519-720-9694
 E-mail: info@optaminerals.com
 Visit: www.optaminerals.com

Opta Minerals is one of North America's largest miners, importers and processors of Garnet Abrasives.

Garnet, derived from mined Almandite and Andradite mineral deposits, is a semi-precious stone. Once extracted, it is processed and then screened to the desired grade.

The combination of the high density and physical properties make Garnet nature's most highly efficient, effective and safe abrasive for both wet and dry blasting applications.



ADVANTAGES OF GARNET FOR BLAST CLEANING

- Wide range of grades and composition available for different jobs and profiles
- Superior surface profile – garnet grains create a uniform profile virtually free of embedment, providing an excellent surface for coating adhesion
- Cost-effective - highly effective, low consumption
- Non-toxic – inert and natural, crystalline silica levels are less than 1%
- Recyclable up to 5 times
- Low dust levels – improved operator visibility
- Easy cleanup
- Non-reactant – will not interfere with your coatings
- Non-porous – will not draw moisture

AVAILABLE SIZES AND GRADES:

ALMANDITE		ANDRADITE	
HARD ROCK		ALLUVIAL	ROCK
Galaxy Garnet	Galaxy JS Garnet	Indian Beach Garnet	IG Garnet
#8 Mesh	#36 (20-40M)	#12-40 Mesh	#8 Mesh
#8-12 Mesh	#30-60 Mesh	#20-40 Mesh	#8-12 Mesh
#16 Mesh	#50 Mesh	#20-60 Mesh	#12 Mesh
#36 Mesh	#80 Mesh	#30-60 Mesh	#20-40 Mesh
#30-40 Mesh		#80 Mesh	#36 Mesh
#50 Mesh		#120 Mesh	#30-40 Mesh
#60 Mesh			#50 Mesh
#80 Mesh			#60 Mesh
#120 Mesh			#80 Mesh

TECHNICAL SPECIFICATIONS (IN %)

		ALMANDITE			ANDRADITE
		HARD ROCK		ALLUVIAL	ROCK
		Galaxy Garnet	Galaxy JS Garnet	Indian Beach Garnet	IG Garnet
		Chemical Composition in %			
SiO ₂	(Silicon Dioxide - Total)	37.2	36.6	36.0	36.0
Fe ₂ O ₃	(Iron Oxide)	33.2	29.6	32.0	31.1
Al ₂ O ₃	(Aluminum Oxide)	20.6	14.3	23.0	2.9
MgO	(Magnesium Oxide)	6.1	5.0	6.0	1.0
CaO	(Calcium Oxide)	2.0	10.4	1.0	26.0
MnO	(Manganese Oxide)	0.6		1.0	1.0
TiO ₂	(Titanium Dioxide)	0.3	2.9	1.0	1.0
Na ₂ O	(Sodium Oxide)		1.2		
ZrO ₂	(Zirconium Oxide)				1.0
		100.0	100.0	100.0	100.0

CHARACTERISTICS

	ALMANDITE			ANDRADITE
	HARD ROCK		ALLUVIAL	ROCK
	Galaxy Garnet	Galaxy JS Garnet	Indian Beach Garnet	IG Garnet
Hardness:	7.95-8.0 Moh	7.5-8.0 Moh	7.5 Moh	7 Moh
Density:	150 lbs/ft ³	145 lbs/ft ³	145 lbs/ft ³	135 lbs/ft ³
Specific Gravity:	4.0 - 4.1 g/cm ³	3.9-4.1 g/c ³	4.1 g/cm ³	4.0 g/cm ³
Colour:	Brown/Red	Brown/Red	Pink	Grey/Brown

PACKAGING

ALMANDITE			ANDRADITE
HARD ROCK		ALLUVIAL	ROCK
Galaxy Garnet	Galaxy JS Garnet	Indian Beach Garnet	IG Garnet
2000 lb SS	2200 lb SS	2200 lb SS	50 lb bags
50 lb bags	50 lb bags	50 lb bags	2000 lb SS
			4000 lb SS