

GARNET

PRODUCT

Garnet – SSPC/AMPP AB1 Certified is a naturally occurring almandite garnet, the hardest of all known garnet types. All grades have a Moh’s hardness of 7-8, with a specific gravity of 3.75-4.30 g/cm³.



USES

Garnet is suitable for sandblasting, textile blasting (jeans), water filtration, glass and tube blasting, anti-slip coating, water jet cutting, abrasive applications, tumbling media and non-skid surfaces.

ADVANTAGES

- The angular to sub angular particle size is proven to be very fast cutting, and provides a super clean surface for protective coating applications.
- **Garnet** is chemically inert, with less than 1% free silica and no heavy metals.
- **Garnet** is recoverable and reusable.
- Garnet is classified in Fisheries and Oceans Canada Report #1692 of Jan./91 as:
 - (a) Having moderate to low toxicity to fish, i.e. 96-h LC50 \geq 100 mg/L (Test value was >70,000 mg/L).
 - (b) Not known to be persistent and not likely to accumulate in animal tissues.

PHYSICAL PROPERTIES

Colour	Reddish Brown Deep Red
Grain Shape	Sub-angular to angular
Hardness, Moh	7–8
Bulk Density	2,150-2,400 kg/m ³ (134-150 lb/ft ³)
Specific Gravity	3.75-4.30 g/cm ³
Silica Content	<0.1% weight

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.targetproducts.com/product-warranty
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PACKAGING

Garnet is available in

- 25 kg (55 lb) bags, 40 bags per pallet
- bulk bags = 1 tonne bulk bag per pallet

SAFETY

Garnet Abrasive Blasting Material does not contain any ingredients that require classification under WHMIS regulations. Because of the hazardous nature of abrasive blast cleaning operations and the toxicity of the dusts that can be created when removing certain coatings, all appropriate safety precautions must be followed when using **Garnet Abrasive Blasting Material** or any other abrasive.

Consult your local Industrial Health & Safety Regulations, NIOSH or other requirements for guidance on the required safety procedures and equipment.

TYPICAL CHEMICAL ANALYSIS

COMPOSITION	VALUE
SiO ₂	35.0 – 40.0%
Al ₂ O ₃	20.0 – 28.0 %
FeO	25.0 - 27.0 %
Fe ₂ O ₃	5.0 – 10.0 %
MnO	1.5 – 2.5 %
MgO	0.5 – 2.2 %
CaO	1.5 – 5.0%

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The sieve analysis given in the following tables are typical values. Actual values could change from time to time.

GARNET ABRASIVE SPECIFICATIONS PERCENT PASSING

Sieve Size		Mesh # 20-40	Mesh # 30-60	Mesh # 80	Mesh # 120
U.S. #	mm				
12	1.700				
16	1.180	100			
20	0.850	97.8	100.0		
30	0.600	15.6	95.5	100.0	
40	0.425	0.8	60.6	95-100	100.0
50	0.300	0.5	30.2	70-90	100.0
60	0.250			50-70	
70	0.212		3.7		100.0
80	0.180			3-15	99.8
100	0.150			0-3	89.2
140	0.106				27.8
200	0.075				6.2
Pan					0.1

GARNET ABRASIVE SPECIFICATIONS INDIVIDUAL PERCENT RETAINED

Sieve Size		Mesh # 20-40	Mesh # 30-60	Mesh # 80	Mesh # 120
U.S. #	mm				
12	1.700				
16	1.180	0.0			
20	0.850	2.2	0.0		
30	0.600	82.2	4.5	0.0	
40	0.425	14.8	34.9	0-5	0.0
50	0.300	0.3	30.4	10-25	0.0
60	0.250			15-30	
70	0.212		26.5		0.0
80	0.180			30-55	0.2
100	0.150			0-15	10.7
140	0.106				61.4
200	0.075				21.6
Pan		0.3	3.6	0-3	6.1
Total		99.8	99.9		99.9

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