

TARGET GARNET

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PRODUCT

TARGET® Garnet is a naturally occurring almandite garnet, the hardest of all known garnet types. All grades have a Moh's hardness of 8, with a specific gravity of 4.1. TARGET Garnet is available in size grades to meet requirements for any project.

USES AND ADVANTAGES

- **TARGET Garnet** is available in all of the sizes required by industry today for dry blasting in shipyards, pulp and paper mills, and fabrication shops, waterjet cutting, filtration, and polymer mortars or surface coatings.
- The angular to sub angular particle size is proven to be very fast cutting, and provides a super clean surface for protective coating applications.
- **TARGET Garnet** is chemically inert, with less than 1% free silica and no heavy metals.
- **TARGET 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 >70000 mg/L.).
 - (b) not known to be persistent and not likely to accumulate in animal tissues.

TYPICAL APPLICATION DATA

Mesh #12-24	Coarse abrasive blasting material for heavy rust and mill scale. Slip-resistant aggregate for traffic grade coatings.
Mesh #20-40	Light rust and mill scale, waterblasting, non-ferrous metals, smooth finish, and filtration.
Mesh #30-60	Metals and alloys, wood, plastic, fine honing and deburring, jet cutting.
Mesh #50-80	Water-jet cutting
Mesh #80	Fine Polishing, deburring, fine stripping

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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PHYSICAL PROPERTIES

Colour	Reddish Brown Deep Red (very close to purple)
Grain Shape	Sub-angular to angular
Hardness, Moh	7.5–8
Bulk Density	120 - 160 lb/ft ³ (1922 - 2563 kg/m ³), depending on gradation
Specific Gravity	3.8 - 4.2
Silica Content	<0.1%weight

PACKAGING

TARGET Garnet is available in 25 kg (55 lb) bags.

SAFETY

TARGET 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 **TARGET 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 %
TiO ₂	1 %
Al ₂ O ₃	21 %
Fe ₂ O ₃	31 %
MnO	0.5 %
MgO	8 %
CaO	1.5%

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TARGET GARNET ABRASIVE SPECIFICATIONS

PERCENT PASSING

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

Sieve Size		Mesh # 12-24	Mesh # 20-40	Mesh # 30-60	Mesh # 50-80	Mesh # 80
U.S. #	mm					
12	1.70	100				
20	0.85	40.8	99.3			
25	0.71	5.3	75.8			
30	0.60		41.1	99.9		
40	0.425		6.7	72.5		
50	0.30			16.7	92.9	
60	0.25				65.9	88.9
70	0.212			2.3		
80	0.18				16.5	29.7

TARGET GARNET ABRASIVE SPECIFICATIONS

INDIVIDUAL PERCENT RETAINED

Sieve Size		Mesh # 12-24	Mesh # 20-40	Mesh # 30-60	Mesh # 50-80	Mesh # 80
U.S. #	mm					
12	1.70	0.0				
20	0.85	59.2	0.7			
25	0.71	35.5	23.6			
30	0.60	5.6	34.7	0.1		
40	0.425		34.4	27.4		
50	0.30		6.7	55.9	7.1	
60	0.25				27.0	11.1
70	0.212			14.4		
80	0.18				49.4	59.2

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