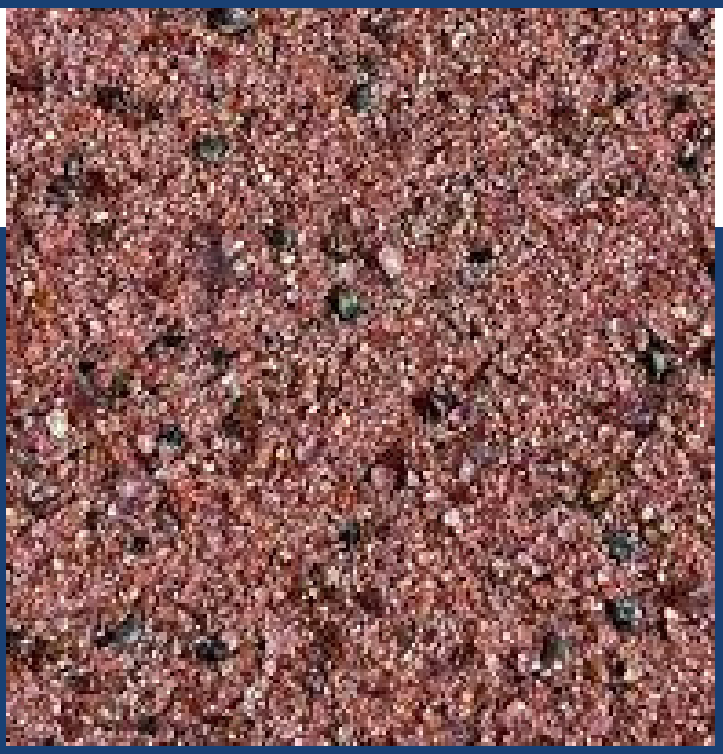
PARMADAR

BLAST CLEANING ABRASIVE

GMA ToughBlast™

Engineered for high performance in demanding coating removal jobs up to 750 µm, including tank linings, shipyards, bridges, and oil & gas facilities.



Engineered Blend for the Toughest Coating Removal Jobs

GMA's ToughBlast™ is GMA's most diverse blend of garnet engineered for the toughest coating removal jobs. The unique blend of both course and fine garnet removes resilient industrial coatings, and the durability of our sub-angular alluvial garnet helps sweep off remaining surface contaminants. It produces an unmatched coating adhesion for industrial maintenance projects in shipyards, petrochemical plants, tank farms (exteriors and interior liners), rail car facilities, water towers, water treatment plants and general maintenance.

Performance

Fast removal of medium coatings and/or medium rust.

- **Uniform surface profile: 70 - 91 µm**
- **Blasting rates: Up to 30 m^2/hr**
- **Consumption rate: As low as 16 kg/m^2**

Features

- **High productivity:** Cut blasting hours by 30-50%* compared to slag abrasives. GMA ToughBlast™ performance has been demonstrated through rigorous product testing and a track record of success in applications worldwide.
- **Cost-effective blasting:** Deliver fast results at the lowest cost. GMA Garnet™ can provide significant savings in abrasive consumption, blasting hours, and disposal costs for your project. Overall, garnet sandblasting generally requires 30–50% less product than waste slag.*
- **Ideal surface finish:** GMA ToughBlast™ achieves an exceptionally clean surface and high peak density. Our uniquely hard and tough garnet blend cuts through resilient coatings, allowing operators to prepare surfaces quickly for inspection and recoating.
- **Safe and compliant:** Have complete peace of mind knowing GMA Garnet™ meets all industry, government safety, and environmental standards. Blasting the purest, cleanest garnet means less dust, leading to better operator visibility and less worker risk.

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Major Industries & Applications

- Oil & Gas (Onshore and Offshore)
- Tank exteriors and liners
- Water and wastewater treatment
- Energy generation
- Shipyard maintenance and repair
- Pipelines

Average Chemical Composition (Typical)

SiO_2 *	37%
Al_2O_3	21%
Fe_2O_3	33%
MgO	7%
CaO	2%
TiO_2	2%
MnO	1%

**Refers to SiO_2 bound within the lattice of the homogeneous garnet crystal (not free silica)*

Physical Characteristics (Typical)

Bulk Density	2.3 T/m^3
Specific Gravity	4.0
Hardness (Mohs)	7.5 - 8.0
Melting Point	1250°C / 2250°F
Shape of Natural Grains	Sub-Angular

Mineral Composition (Typical)

Garnet (predominately Almandine)	> 98%
Quartz (free silica)	< 0.1%
Others	< 2%

Other Characteristics (Typical)

Radioactivity	Non-detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	10 – 15 ppm
Conductivity	100-150 µS/cm (10-15 mS/m)

Product Range (typical weight % retained)

Mesh	Microns	Cumulative	Discrete
18	1000	1	1
20	850	4	3
25	710	6	3
30	600	10	3
35	500	15	6
40	425	24	8
45	355	37	13
50	300	48	11
60	250	63	15
70	212	80	17
80	180	91	12
100	150	95	4
PAN	PAN	100	5

Packing

We offer various packing options:

- 25 kg bags packed in 1 MT bulk bag
- 1 MT bulk bag (loose)
- 25 kg bags packed in 2 MT bulk bag
- 2 MT bulk bag (loose)