PARMADAR

BLAST CLEANING ABRASIVE

GMA NewSteel™

Faster than other garnets or staroulite, GMA NewSteel™ provides superior surface cleanliness, a uniform profile, and greater coating adhesion, extending your coating life.

Unrivaled Speed in Removing Mill Scale

GMA NewSteel™ is our high performance garnet that delivers the most efficient, cost-effective abrasive for lightly rusted surfaces and thin coatings. It provides an unrivaled speed at removing mill scale. Throughout the world, GMA Garnet™ is recognised as the leading high performance, cost effective and safe choice for a variety of blasting applications.

Performance

Unrivaled speed in removing mill scale.

- **Uniform surface profile: 40 - 60 µm**
- **Blasting rates: Up to 35 m^2/hr**
- **Consumption rate: As low as 7 kg/m^2**

Features

- **High productivity:** Cut blasting hours by 40-70%* compared to staurolite or slag abrasives. GMA NewSteel™ 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 NewSteel™ achieves an exceptionally clean surface with high peak density and a uniform surface profile. Our uniquely hard and tough garnet blend ensures the best coating adhesion, nearly 40% better than staurolite.
- **Safe and compliant:** Garnet is a chemically inert natural mineral with little-to-no worker health and safety risks. GMA Garnet™ meets all industry and government safety and environmental standards.

PARMADAR

Major Industries & Applications

Oil & Gas (Onshore and Offshore)

Tank exteriors and liners

Water and wastewater treatment

Railcars

Average Chemical Composition (Typical)

SiO_2 *	36%
Al_2O_3	20%
Fe_2O_3	35%
MgO	6%
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	4.1
Hardness (Mohs)	7.0 - 8.0
Melting Point	1250°C / 2250°F
Shape of Natural Grains	Sub-Angular

Mineral Composition (Typical)

Garnet (predominately Almandine)	> 97%
Ilmenite	< 2%
Quartz (free silica)	< 0.1%
Others	< 1%

Other Characteristics (Typical)

Radioactivity	Non-detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	10 – 25 ppm
Conductivity	100-150 µS/cm (10-15 mS/m)

Product Range (typical weight % retained)

Mesh	Microns	Cumulative	Discrete
40	425	2	2
45	355	4	2
50	300	8	4
60	250	25	17
70	212	57	32
80	180	84	27
100	150	96	12
PAN	PAN	100	4

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)