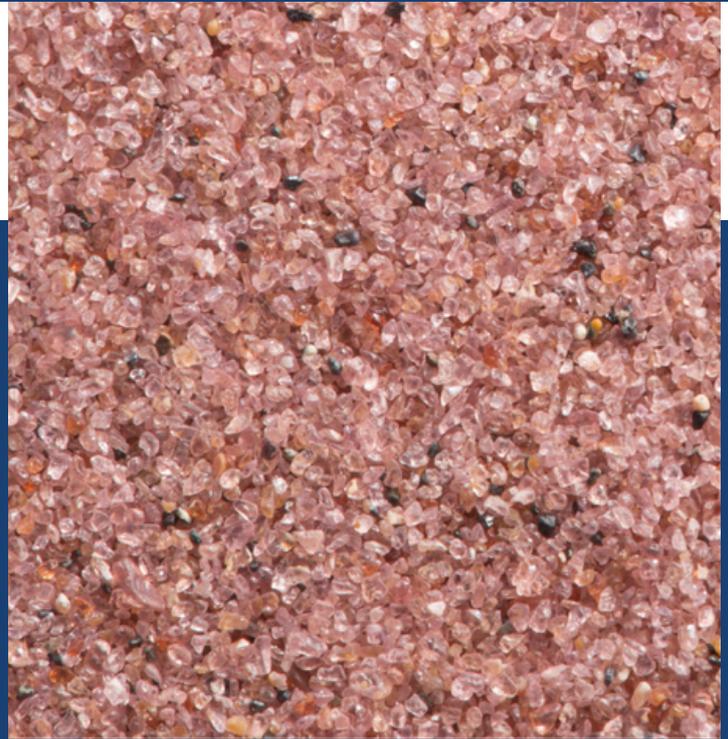




BLAST CLEANING ABRASIVE

# GMA NewSteel™

Faster than other garnets or staurolite, 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<sup>2</sup>/hr
- **Consumption rate:** As low as 7 kg/m<sup>2</sup>

### 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.



## Major Industries & Applications

Oil & Gas (Onshore and Offshore)

Tank exteriors and liners

Water and wastewater treatment

Railcars

### Average Chemical Composition (Typical)

<b>SiO<sub>2</sub> *</b>	36%
<b>Al<sub>2</sub>O<sub>3</sub></b>	20%
<b>Fe<sub>2</sub>O<sub>3</sub></b>	35%
<b>MgO</b>	6%
<b>CaO</b>	2%
<b>TiO<sub>2</sub></b>	2%
<b>MnO</b>	1%

\*Refers to SiO<sub>2</sub> bound within the lattice of the homogeneous garnet crystal (not free silica)

### Physical Characteristics (Typical)

<b>Bulk Density</b>	2.3 T/m <sup>3</sup>
<b>Specific Gravity</b>	4.1
<b>Hardness (Mohs)</b>	7.0 - 8.0
<b>Melting Point</b>	1250°C / 2250°F
<b>Shape of Natural Grains</b>	Sub-Angular

### Mineral Composition (Typical)

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

### Other Characteristics (Typical)

<b>Radioactivity</b>	Non-detectable above background
<b>Moisture Absorption</b>	Non-hygroscopic, Inert
<b>Total Chlorides</b>	10 – 25 ppm
<b>Conductivity</b>	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)