

# Product Data Sheet

GMA Newsteel™



## Average Chemical Composition (Typical)

SiO <sub>2</sub> *	36%
Al <sub>2</sub> O <sub>3</sub>	20%
FeO	30%
Fe <sub>2</sub> O <sub>3</sub>	2%
MgO	6%
CaO	2%
TiO <sub>2</sub>	1%
MnO	1%

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

## Mineral Composition (Typical)

Garnet (predominately Almandine)	92%
Pyroxene	5%
Ilmenite	<1%
Quartz (free silica)	<0.1%
Others	<0.5%

## Other Characteristics (Typical)

Radioactivity	Non-detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	1 – 3 ppm
Conductivity	<50 μS/cm (<5 mS/m)

\*Tested in accordance to ISO and ASTM standards.

## Physical Characteristics (Typical)

Bulk Density	149.82 lbs/ft <sup>3</sup> (2.3 t/m <sup>3</sup> )
Specific Gravity	4.1
Hardness (moh)	7.5 – 8.0
Melting Point	2282°F (1250°C)
Shape of Natural Grains	Sub-angular

## Product Range (typical weight % retained)

Mesh	Microns	Cumulative	Discrete
45	355	2	2
50	300	10	8
60	250	40	30
70	212	78	38
80	180	96	15
100	150	100	4
PAN	PAN	100	0

## Packaging

- 55 lb. (25 kg) paper bags on 1 metric ton or 2 metric ton pallet
- 1 metric ton or 2 metric ton bulk bags with bottom spout and an inner plastic liner
- Loose bulk delivered by pneumatic truck.

## Source

- Made in USA from imported raw materials
- Product Code: GMA-USA-80
- Product specification: 80 Mesh Garnet.

PDS Code: GMA-USA-80 PDS-V1-2018-08