



BLAST CLEANING ABRASIVE

# GMA ClassicCut™ 80

Ideal for a wide variety of waterjet cutting applications, GMA ClassicCut™ consists of the highest quality alluvial almandine garnet engineered to achieve optimum surface finish and cutting speeds.



## The World's Most Popular Waterjet Abrasive

GMA ClassicCut™ 80 is the world's most popular waterjet abrasive, recognised as the industry standard waterjet cutting abrasive among manufacturers globally.

Ideal for a wide variety of waterjet cutting applications, GMA ClassicCut™ consists of the highest quality alluvial almandine garnet engineered to achieve optimum surface finish and cutting speeds.

### Performance

Most versatile, pure alluvial garnet abrasive considered an industry standard worldwide.

- **Mesh:** 80 mesh
- **Focusing tube:** 0.762 - 1.02 mm
- **Orifice:** 0.254 - 0.356 mm

### Features

- **Superior performance:** Delivers peak performance and longer operating life.
- **Operational efficiency:** Minimise downtime and reduces consumption.
- **Higher cut quality:** Consistent and guaranteed high production rates and perfect cutting edge.
- **Industry standards:** Recognised industry standard amongst manufacturers.



## Major Industries & Applications

Stone cutting

Glass cutting

Ceramics

Medical devices

Aerospace

Automotive

## 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>	3%
<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>	7.5 – 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>	> 90%
<b>Ilmenite</b>	< 3%
<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 – 20 ppm
<b>Conductivity</b>	100-150 µS/cm (10-15 mS/m)

## Product Range (typical weight % retained)

Mesh	Microns	Cumulative	Discrete
40	425	0	0
45	355	3	3
50	300	23	20
60	250	55	32
70	212	78	23
80	180	92	14
100	150	98	6
PAN	PAN	100	2

## 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)