

## GARNET (NATURAL MINERAL ABRASIVE)

**TRADE NAME**

**MICROBLAST**

**DESCRIPTION**

Microblast® is a natural mineral abrasive, reddish/pink in colour, predominantly almandine consisting of sub-angular particles mined from an alluvial resource.

**FUNCTION**

Microblast® is the abrasive of choice for all water jet cutting and abrasive blasting applications. As an abrasive media it is highly efficient due to its low dust emission, compatibility to non-ferrous metals, low tendency of grit embedment and recyclability up to 5 times.

**TYPICAL CHEMICAL ANALYSIS  
(full analysis on application)**

Almandine Garnet $Fe_3Al_2(SiO_4)_3$	80 – 85%
Ilmenite ( $FeTiO_3$ )	15 – 20%

**TECHNICAL DATA**

Hardness	7.8 – 8 Moh scale
Specific gravity	4
Average bulk density	2.3 kg/l
Free silica	< 1 %
Chlorides	< 30 ppm
Conductivity	< 250µS/cm (Test method ISO 11127)
Storage	Dry, sheltered storage conditions.
Packaging	2T bulk bags or unitized 25kg bags

**SIEVING RANGE**



GRADE	PROFILE RANGE	SIZE RANGE (microns)	PERFORMANCE CHARACTERISTICS
<b>WATER JET CUTTING GRADE</b>			The grain shape and high bulk density result in a fast cutting and stripping abrasive. Can be recycled up to five times without loss of performance, resulting in lower shipping, handling, collection and disposal costs.
W80		150 – 425	
W120		125 – 300	
<b>BLASTING GRADE</b>			Blast cleaning using garnet produces significantly lower dust emissions than other blast abrasives – resulting in minimal disruption and danger to adjoining operations, improved operator visibility, and lower clean-up costs.
20/60	65 - 95	250 – 850	
30/60	50 - 75	250 – 600	
20/40	70 - 110	425 – 850	