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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 $Fe_3Al_2(SiO_4)_3$	>92%
Ilmenite ($FeTiO_3$)	<10%
Free Silica (SiO_2)	<1%

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
WATER JET CUTTING GRADE			The grain shape and high bulk density result in a fast cutting and stripping abrasive.
W80		150 – 385	
W120		125 – 300	Can be recycled up to five times without loss of performance, resulting in lower shipping, handling, collection and disposal costs.
BLASTING GRADE			
20/60	65 - 95	250 – 850	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.
30/60	50 - 75	180 – 600	
20/40	70 - 110	425 – 850	