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

TECHNICAL DATA

Hardness 7.8 – 8 Moh scale
 Specific gravity Approx. 4.022 kg/m³
 Loose bulk density Approx. 2.306 kg/m³
 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. 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	
BLASTING GRADE			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	