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# GARNET (NATURAL MINERAL ABRASIVE)

**TRADE NAME**

## MICROBLAST®

**DESCRIPTION**

Microblast® is a natural mineral abrasive, reddish/pink in colour, predominantly almandite 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)**

| | |
|---|---|
| $Si0_2$ | 33% |
| $Fe_2O_3$ | 33% |
| Ti0 | 1% |
| $Al_2O_3$ | 23% |
| CaO | 4 % |
| MgO | 4% |
| $MnO_2$ | 1% |

**TECHNICAL DATA**

| | |
|---|---|
| Hardness | 7.8 – 8 Moh scale |
| Specific weight | Approx. 4.1 g/cm³ |
| Bulk weight | Approx. 2.3 kg / L |
| Free silica | < 1 % |
| Chlorides | < 30 ppm |
| Conductivity | < 25 mS/m ISO 11127-6 / 11126-10 |
| 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.<br>Can be recycled up to five times without loss of performance, resulting in lower shipping, handling, collection and disposal costs.<br>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 cleanup costs. |
| W80 | | 150 – 425 | |
| W120 | | 125 – 300 | |
| **BLASTING GRADE** | | | |
| 20/60 | 65 - 95 | 250 – 850 | |
| 30/60 | 50 - 75 | 250 – 600 | |
| 20/40 | 70 - 110 | 425 – 850 | |

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