

Galaxy Garnet 80S - Waterjet Cutting Media

Technical Data Sheet

GALAXY GARNET 80S This has been specifically designed for waterjet cutting.

Typical Chemical Analysis (%):

Aluminium Oxide	Al ₂ O ₃	21 - 46
Iron Oxide	Fe ₂ O ₃	3 - 18
Iron Oxide	FeO	15 - 29
Silicon Dioxide (total)	SiO ₂	22 - 37
Titanium Oxide	TiO ₂	5 - 16
Zirconium Dioxide	ZrO ₂	4 - 8
Calcium Oxide	CaO	< 2.0
Manganese Oxide	MnO	< 0.64

Typical Physical Properties:

Colour.....Dark reddish brown
Bulk Density (loose)..... ~140 lbs./ft.³
Bulk Density (compacted)..... ~145 lbs./ft.³
Specific Gravity 3.7 - 4.0
Moisture< 0.30%

Grain Shape..... Sub-angular
Moh Hardness 7 - 7.5
Melting Point na
Solubility Insoluble

Typical Gradation:

U.S. Mesh	Microns	Percent	
		Retained	Passing
20	850	0.0	100.0
30	600	0.0	100.0
40	425	0.0	100.0
50	300	5.1	94.9
70	212	44.8	50.1
100	150	29.9	20.2
140	106	16.3	3.9
200	75	3.6	0.3
270	53	0.3	0.0
PAN		0.0	0.0

Grain Fineness #: 70 - 90

