



# BLACK GARNET data sheet

**DESCRIPTION:** using highly technological refining systems we have created Black Garnet, the new high-performance synthetic abrasive which in accordance with UNI EN 11126-6 can be used as an abrasive, for use as a tool for Waterjet systems and Sandblasting systems and other applications in certification phase.

To produce the various grain sizes, the grain is reduced metricly by crushing and selected by sieving.

Therefore, other 11 types of grain sizes are currently obtained, distinguished according to the grain size class characteristic of each of them.

Eurowaterjet deals with worldwide distribution and sales and assistance with an exclusive contract.

CERTIFICATION	CE (2+)	
SOLUBILITY IN WATER	Not soluble (Distilled Water at 20 C° degrees)	
HARDNESS HRC	55-63 HRC	
SPECIFIC GRAVITY	3,7-3,8	
RELATIVE DENSITY	2,2	
RESISTANCE TO FRAGMENTATION	13-16	LA
RESISTANCE TO SMOOTHING	53-54	PSV
WATER ABSORPTION	0,9-1,1	%
WEAR RESISTANCE	5-6	MDE
SOLUBILITY IN ACID	<1%	
FUSION POINT	1265°C-1390°C	
ELECTRIC CONDUCTIBILITY (UNI 11126)	< 250 μS/cm (Medium Value 203 μS/cm)	
RESPIRABLE FREE QUARTZ	<0.1% (Less than 1/10 of 1%)	
SiO2- QUARTZ PHASE	<1 %	
SiO2- CRISTOBALITE PHASE	<1 %	
SiO2- TRIDIMITE PHASE	<1 %	
RADIOACTIVITY'	Absent	
COLOR	Dark gray	
GRANULAR FORM	Sub Angolar	
SIZES	Mesh 500	Microwaterjet-Monumental Blasting
	Mesh 300	Microwaterjet-Monumental Blasting
	Mesh 200	Microwaterjet-Monumental Blasting
	Mesh 120	Waterjet-Blasting
	Mesh 80	Waterjet-Blasting
	Mesh 60	Waterjet-Blasting
	Mesh 30/60	Blasting
	Mesh 20/60	Blasting
	Mesh 20/40	Blasting
	Mesh 12/60	Blasting
	Mesh 6/60	Blasting



**ECOLOGICAL  
SYNTHETIC ABRASIVE**



**Black Garnet**

TYPICAL CHEMICAL ANALYSIS			
Dry residue 105° C	g/100g	100,0	
pH (aqueous suspension) 10%	Unit pH	11,40	
Dry residue 975° C	g/100g	97,80	
Total arsenic	mg/kg	<2,0	
Total barium	mg/kg	780	
Total cadmium	mg/kg	13,6	
Hexavalent chromium	mg/kg	114	
Total copper	mg/kg	84	
Total Mercury	mg/kg	<0,50	
Total nickel	mg/kg	<2,0	
Total lead	mg/kg	<2,0	
Total zinc	mg/kg	45	
Silica	% SiO <sub>2</sub>	11,00	
Calcium	% CaO	26,15	
Magnesium	% MgO	5,5	
Sodium	% Na <sub>2</sub> O	0,15	
Potassium	% K <sub>2</sub> O	0,10	
Aluminum	% Al <sub>2</sub> O <sub>3</sub>	5,6	
Iron	% Fe <sub>2</sub> O <sub>3</sub>	42,90	
Manganese	% MnO	3,75	
Total chromium	% Cr <sub>2</sub> O <sub>3</sub>	2,05	
Titanium	% TiO <sub>2</sub>	0,45	
Vanadium	% V <sub>2</sub> O <sub>5</sub>	0,15	
Sulfur	% SO <sub>3</sub>	0,30	
Phosphorus	% P <sub>2</sub> O <sub>5</sub>	0,75	
Total carbonates	% CO <sub>2</sub>	1,10	
Packaging	Loose In Big_Bag 1 - 1.5 - 2 Tons with protective polypropylene bag and 30 cm drain valve. 25 kg bags Possibility of having Big-Bags on pallets. Possibility to have customized packaging		

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[www.blackgarnet.it](http://www.blackgarnet.it) - [info@blackgarnet.it](mailto:info@blackgarnet.it)

**EW EuroWaterJet®**

Eurowaterjet Srl - Via Unicef, 10 29122 Piacenza Italy Tel +39-0523070307 - Fax +39-05231810102