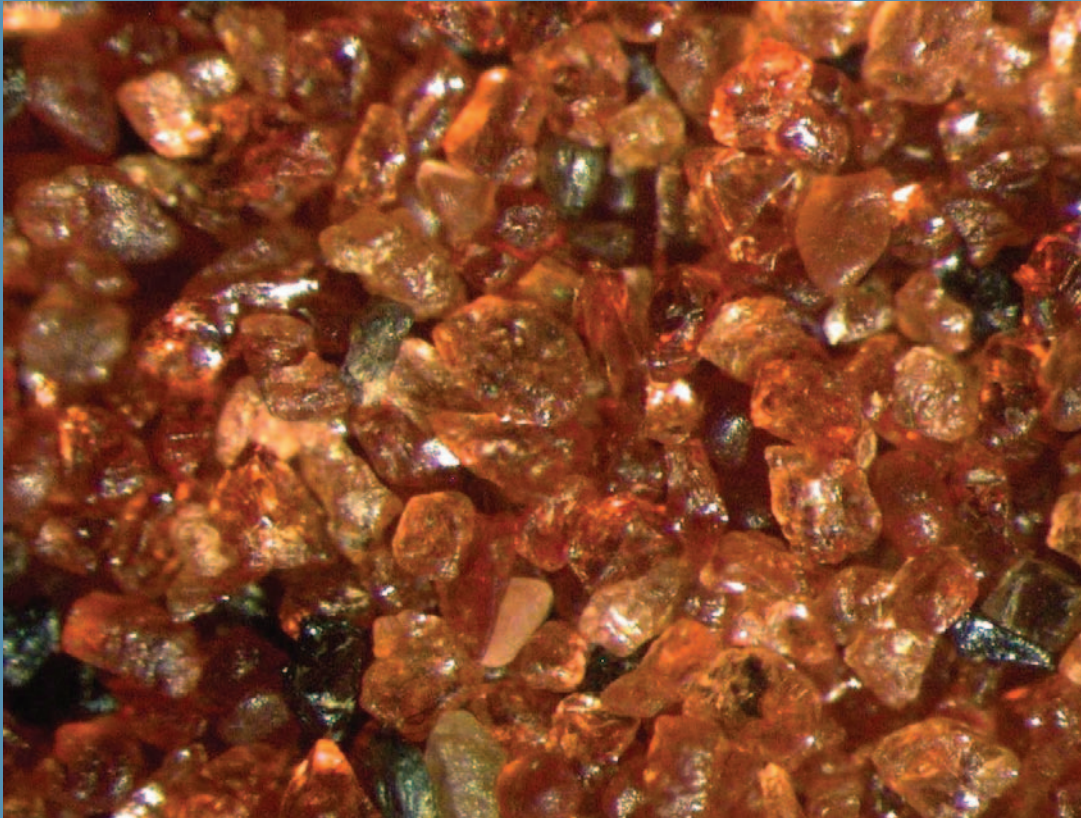


**ABRAJET HAS CHOSEN
PURITY AND CUTTING QUALITY**



ROCK GARNET

Observed through a microscope at 6x magnification

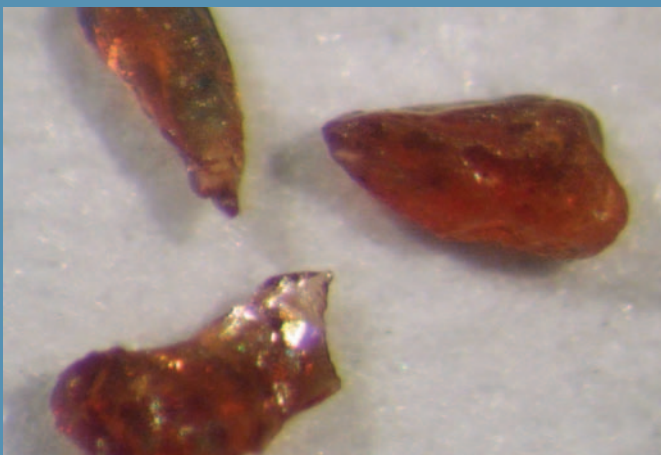


The **ROCK** quality is a product derived from mine excavation.

It is characterized by a very indented and jagged surface that increases its cutting power, rendering it **(up to 15%)** more efficient compared to beach sand (**BEACH**).

In addition to higher cutting speeds, the **ROCK** garnet also has advantages in terms of lower consumption of abrasive and saving electrical power.

The **ROCK** product is available in **80 & 120** mesh.



Crystal, observed through a microscope at 40x magnification



BEACH GARNET



Observed through a microscope at 6x magnification



The **BEACH** quality is a product derived from beach sand excavation and it is characterized by a smoother and more rounded surface, common to all stone and rock being subject to constant water erosion.

This type of garnet is mainly found in Australia, India and Sri Lanka.

Regardless of the origin from where this product is derived, the quality is always the same since it cannot change with respect to the soil from where it is excavated.

The cutting speeds obtained with the **BEACH** product are certainly inferior compared to the **ROCK** product, due to the combination of diminished surface characteristics and level of purity; the **BEACH** product of Abrajat is perfectly clean.

The **BEACH** product is available in **80 & 120 mesh**.



Crystal, observed through a microscope at 40x magnification

TECHNICAL DATA SHEET

Chemical name	Garnet Almandine 98/99% purity
Description	Natural abrasive sand not dangerous and chemically inert
Application field	Utilized for water jet cutting machines
Appearance	Cristalline, angular, irregular
Colour	Dark red Rock - Pink Beach
Radioactivity	Not detectable
Toxicological information	No toxic
Stability and reactivity	Stable and without particular reaction
Volatiles	Not Applicable
Water Solubility	Not Applicable
Health and environment risk	None
Special precautions	None
Emergency first aid	None
Fire fighting measures	Non-flammable
Precaution in case of material leak	None
Transport	No specific transport requirement
Handling	Use loading strap
Storage	Store in a dry place
Waste disposal	In accordance with local regulation

MINERAL COMPOSITION

Almandine	97/98%
Ilmenite	0,4%
Quartz	0,4%
Others	<1%

GENERAL CHARACTERISTICS

Hardness	7.5/8 Moh's scale
Density	2.400 Kg/m3
Specific gravity	4.10 T/m3
Monazite equivalent (limit 0,25%)	<0,08%
Shape of grain	Crystal sharp angular

CHEMICAL COMPOSITION

SiO2	39,50%
Al2O3	18,80%
FeO+Fe2O3	26,40%



ABRAJET S.r.l.

Zona Ind. Via Cascina Trivulzina, 13/56 - 20041 Agrate Brianza (MI) - Tel. +39-039-6894020 - Fax +39-039-6881041
www.abrajetcarnet.com - info@abrajetcarnet.com