

GARNET



Garnet is a mineral cutting and filter media based on the natural occurring mineral Almandine. It is characterized by its high hardness and high specific weight. Due to the high hardness and cubic shape Garnet is perfectly suited as cutting media for waterjet-cutting-technology.

Due to the high specific weight Garnet is ideally suited as filter media and support grain.

CHARACTERISTICS

- > hard
- > cubic shape
- > high specific shape
- > no soluble contents
- > no metallic iron
- > narrowly graded
- > chemically inert

CHEMICAL ANALYSIS

(GUIDELINE VALUES OF NATURAL PRODUCT)

SiO ₂	35 - 39 %
Al ₂ O ₃	21 %
Fe ₂ O ₃	17 - 35 %
MgO	5 - 8 %
CaO	1 - 2 %

PHYSICAL PROPERTIES

specific weight approx. 4,1 g/cm³
 bulk density approx. 2,4 g/cm³
 Mohs hardness approx. 8
 particle shape angular/cubic

PACKAGING

- > 25 kg paper bags in big bags à 1.000 kg
- > Big Bags à 1.000 kg

CUTTING GRADES

60 Mesh 0,18 – 0,60 mm
 80 Mesh 0,18 – 0,35 mm
 120 Mesh 0,09 – 0,25 mm

USE

for waterjet-cutting-technology:

Due to cubic shape and Mohs hardness of 8 garnet is ideally suitable as cutting media for waterjet-cutting-technology apart from other minerals. Garnet is free of metallic iron und contains no soluble or dusty constituents. Suitable for cutting stainless and special steel. Usable in following waterjet-cutting-technologies: water-abrasive-injection-jet-cutting system (WAIS) and water-abrasive-suspension-jet-cutting-system (WASS).

as filter media:

Suitable as filter media due to round cubic shape and high specific weight of 4,1 g/cm³. Referring to high specific weight garnet is ideally suited as support grain for heavier filter media. Garnet is a narrowly graded and chemically inert filter media. Suitable for the use in pool filters, aquaristic and aquaculture. Available filter grades on request..