

Technical Datasheet	Aqua-garco according to EN 12910	QMS-No. GBT14111

General

Aqua-garco is a naturally occurring mineral with uniform physical, chemical, hardness and microstructure characteristics, which provide the essential properties for a wide variety of industrial uses.

Aqua-garco is the compositional variety known as **almandite**. There are no free elements; all oxides are combined chemically as an iron-rich aluminosilicate, which has the formula: Fe₃Al₂(SiO₄)₃.

Texturally and compositionally uniform in all sizes. All material mined from the same high-grade deposit.

Applications

Inert filter medium

- as polishing layer (because of it's high density you can choose finer sizes compared to Aqua-sand) wherever extremely high water quality is required,
- for removal of suspended solids down to 1 μm,
- for pre-filtration to protect valuable units like Activated Carbon Filters, Ion-exchangers and Reverse Osmosis Membranes,
- in single-, dual- or triple-layer filter, combined with Aqua-sand or Aqua-cite or Aqua-sand plus Aqua-cite.

Chemical			Average figures	EN 12910
analysis	SiO_2	mass-%	37	32 - 42
	Al_2O_3	mass-%	21	15 - 25
	FeO	mass-%	29	20 - 40
	Fe_2O_3	mass-%	4	0 - 15
	TiO ₂	mass-%	< 1	0 - 5
	CaO	mass-%	2	0 - 5
	MgO	mass-%	6	0 - 15
	MnO	mass-%	< 1	0 - 5
Physical			Average figures	EN 12910
characteristics	Density	g/cm ³	4.1	4.1
	Bulk density	kg/m ³	2250	2150 - 2250
	Acid solubility	insoluble		
	Shape	sub-rounded to sub-angular		
	Sizes available	Standard sizes 0.3-0.6 mm and 1.4-2.5 mm, other sizes upon request.		

Packaging

25 kg woven plastic bags, palletised covered by plastic foil,
 1 mt per pallet.

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