



AQUA-GARCO DATA SHEET

Filtermedia for Water Treatment
EN 12910

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: $Fe_3Al_2(SiO_4)_3$.

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 its 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*.

		Average figures	EN 12910	
Chemical analysis	SiO ₂	mass (%)	37	32 - 42
	FeO	mass (%)	29	20 - 40
	Al ₂ O ₃	mass (%)	21	15 - 25
	Fe ₂ O 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 characteristics

		Average figures	EN 12910
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		
Colour	White, white to yellow		
Sizes available	0.3 - 0.6mm ; 1.4 - 2.5mm (standard)		

Packaging

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

Version: 3.0 / 2014-04-23

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