

<b>Technical Datasheet</b>	<b>Aqua-semidol</b> according to EN 1017, Type A	<b>QMS-No.</b> <b>GBT22111</b>
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**General** *Aqua-semidol* is a high-quality product that is produced from pure dolomite. By a specific thermal decomposition reaction part of the CO<sub>2</sub>, which in dolomite is contained in the magnesium constituent, is released.  

$$CaCO_3 * MgCO_3 \rightarrow CaCO_3 * MgO + CO_2$$

**Applications** *Aqua-semidol* is commonly used for filtration and processing drinking water. It de-acidises water by binding carbon dioxide and adding calcium and magnesium to the water. Moreover, it is used as a carrier of reagents in desulphurisation of waste gases.

<b>Chemical analysis</b>			Average figures	EN 1017, Type A	
	MgO	mass-%	23 - 28	> 23	
	CaCO <sub>3</sub>	mass-%	72 - 77	> 68	
	CaO free	mass-%	< 1	< 2	
	SiO <sub>2</sub>	mass-%	0.01	< 2	
	Al <sub>2</sub> O <sub>3</sub>	mass-%	0.02	< 2	
	Fe <sub>2</sub> O <sub>3</sub>	mass-%	0.05	< 2	
	SO <sub>4</sub> <sup>+</sup>	mass-%	0.03	< 1	
	<b><u>Trace elements</u></b>				
	Arsenic	As	mg/kg	< 1	< 3
Cadmium	Cd	mg/kg	< 0.1	< 2	
Chromium	Cr	mg/kg	1.8	< 10	
Mercury	Hg	mg/kg	< 0.1	< 0.5	
Nickel	Ni	mg/kg	< 0.5	< 10	
Lead	Pb	mg/kg	2.7	< 15	
Antimony	Sb	mg/kg	< 2	< 3	
Selenium	Se	mg/kg	< 5	< 5	

<b>Physical characteristics</b>	<i>Aqua-semidol</i>	<b>Type</b>	<b>K 0</b>	<b>K 1</b>	<b>K 2</b>
	<b>Sizes</b>	mm	0.5-1.25	0.5-2.5	2.5-5.0
	<b>d<sub>50</sub>-value</b>	mm	0.70	1.75	3.08
	<b>Density</b>	g/cm <sup>3</sup>	3.33	3.33	3.33
	<b>Bulk density</b>	kg/m <sup>3</sup>	1100	1130	1140
<b>Colour</b>	white				
<b>Shape</b>	homogenous, porous, with rough surface free of fissures				

- Packaging**
- 25 kg plastic bags, palletised covered by plastic foil, 1 mt per pallet.
  - Bulk-carriers.