

Waterrocks W - Ca

Calcium carbonate (CaCO_3)

for treatment of water intended for human consumption

Conforms to the European standard EN 1018

Characterization: Class 1, Grade 1, Type A

Grading availability: 1 – 2mm, 2 – 4mm



Description:

Natural crystalline calcium carbonate, in granules, deriving from high purity deposit of white calcitic marble. It is a Class 1 material, according to the European standard EN 1018 "Chemicals used for treatment of water intended for human consumption – Calcium carbonate". Calcium carbonate content (CaCO_3) as a percentage of dry mass: $\geq 98.5\%$

Uses:

- Desalination of brackish and seawater, using reverse osmosis method
- pH value correction in swimming pool water or industrial water
- Neutralization of CO_2 produced
- Processing of high acidity water
- Water softening

Chemical analysis:

CaCO_3	$\geq 98.5 \%$	w/w	Fe_2O_3	$\leq 0.02 \%$	w/w
MgCO_3	$\geq 1.0 \%$	w/w	Al_2O_3	$\leq 0.20 \%$	w/w
<i>(EN 1018, Class 1)</i>			SiO_2	$\leq 0.40 \%$	w/w

Residue not soluble in HCl: $<2 \%$ *(EN 1018, Grade 1: requirement $<2 \%$)*

Chemical parameters:

Arsenic (As)	$<1.0 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 3)</i>
Cadmium (Cd)	$<1.0 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 2)</i>
Chromium (Cr)	$<1.0 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 10)</i>
Mercury (Hg)	$<0.05 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement $\leq 0,5$)</i>
Nickel (Ni)	$<2.0 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 10)</i>
Lead (Pb)	$<2.0 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 10)</i>
Antimony (Sb)	$<0.3 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 3)</i>
Selenium (Se)	$<0.3 \text{ mg/Kg}$	<i>(EN 1018, Type A : requirement ≤ 3)</i>

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Head Office: 364 Kifissias Av., 15233 Halandri, Athens /Greece Tel: +30 22950 22225, FAX: +30 22950 22120
Contact: Eleftheria Tsiavou +30 6936 132107 e-mail: etsiavou@nordia.gr www.marmoline.gr





	Available grading:	1-2mm, 2-4 mm
	Grain shape:	Irregular (crushed material)
Physical characteristics:	Density:	2.69 – 2.72 g/cm ³
	Bulk density:	1.35 – 1.50 tn/m ³
	Solubility in water:	~ 0.02 g/l (20 °C)
	Humidity:	< 0.2 %
Packaging:	25 kg plastic bags	
	Alternatively in 1 tn big bags	

The reported values are for informational purposes and are mean values of laboratory tests.
For more information please contact **NORDIA S.A.**

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