



# DERELI MADEN

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## CALCIUM CARBONATE - MARMARA ISLAND

### Physical & Mechanical Analysis

Description	Unit	Result	Standard
Unit volume weight	gr/cm <sup>3</sup>	2,68	TS 699
Specific weight	gr/cm <sup>3</sup>	2,70	TS 699
Water absorption at atmospheric pressure (by weight)	%	0,19	TS EN 13755
Water absorption at atmospheric pressure (by volume)	%	0,53	TS EN 13755
Water absorption in boiling water (by weight)	%	0,27	TS EN 13755
Water absorption in boiling water (by volume)	%	0,59	TS EN 13755
Porosity	%	0,53	TS 699
Compressive strength	kgf/cm <sup>2</sup>	871,3	TS EN 1926
Compressive strength (after freezing)	kgf/cm <sup>2</sup>	796,7	TS 699
Impact strength	kgf/cm <sup>2</sup>	20	TS 699
Flexural strength	kgf/cm <sup>2</sup>	74,2	TS EN 12372
Solidity ratio	%	98,57	TS EN 1936
Degree of porosity	%	1,43	TS 699
Abrasion strength	c <sup>3</sup> /50cm <sup>3</sup>	13,5	TS 699
Tensile strength (Brazilian)	kgf/cm <sup>2</sup>	91,7	TS 699

### Chemical Analysis

Content	%
CaCO <sub>3</sub> +MgCO <sub>3</sub>	98,95
CaO	55,41
MgO	0,45
Al <sub>2</sub> O <sub>3</sub>	0,2
Fe <sub>2</sub> O <sub>3</sub>	0,04
SiO <sub>2</sub>	0,51
Al(CO <sub>2</sub> )	43,54
BaO	0,34
Moisture	0,45
SO <sub>3</sub>	0,1
P <sub>2</sub> O <sub>3</sub>	0,01
As	<0,0002
Mg	1,91
Cd	0,0009
Pb	0,008
Zn	0,0053
Cu	0,0001
Hg	<0,0001



### Location & Port

#### Marmara Island

Marmara Island is located north-west of Turkey, in the middle of Sea of Marmara



#### Saraylar Port

4,5 km away from quarry

Berth length: 122 m

Draught: max. 15 m, min. 11 m

Loading capacity: 5.000 ton/day

Can service up to 17.500 ton capacity ships