
CALCIUM CARBONATE
(0, 325)

DESCRIPTION Calcium Carbonate (CaCO₃) is a naturally occurring, ground limestone.

Physical Properties:

	<u>ZERO GRIND</u>	<u>325 GRIND</u>
Specific Gravity:	2.7	2.7
pH (aq. solution):	9.5-11.4	9.5-11.4
Bulk Density (kg/m ³):	1442-1522	1121-1201

Typical Particle Size Distribution:

<u>ASTM</u> <u>Screen</u> <u>Size</u>	<u>Percent</u> <u>Passing</u>	<u>ASTM</u> <u>Screen</u> <u>Size</u>	<u>Percent</u> <u>Passing</u>
No. 20 ₍₈₅₀₎	99	No. 325 ₍₄₄₎	95
No. 60 ₍₂₃₀₎	94		
No. 100 ₍₁₅₀₎	79		
No. 200 ₍₇₄₎	43		
No. 325 ₍₄₄₎	13		

APPLICATION As zero or 325 grind, these finer grades of calcium carbonate are used primarily as weighting materials which are readily dissolved in the presence of hydrochloric acid. Because of this, calcium carbonate is an ideal weighting agent to use in drilling pressured zones or completion and workover fluids.

HANDLING Calcium Carbonate may be added directly at the suction with agitation or through the mud hopper. To avoid settling out in the surface tanks the fluid viscosity should be raised sufficiently to provide adequate suspension.

NOTE: See disclaimer for supplier responsibility.

MUDCO Services Ltd.

920, 540 Fifth Avenue SW
Calgary, Alberta T2P 0M2
Bus: (403) 269-5359 Fax: 262-1547

PRODUCT DATA

Weighting Materials.doc

To calculate the amount of calcium carbonate required use the formula:

$$\text{CaCO}_3 \text{ kg/m}^3 = \frac{2700(W_2 - W_1)}{2700 - W_2}$$

where W_1 = present mud density in kg/m^3

where W_2 = desired mud density in kg/m^3

Every 100 sacks of calcium carbonate will increase the mud volume by one cubic meter.

WHMIS	Not controlled.
TDG	Not regulated.
PACKAGING	25 kg sack.

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