



**Product Information**

**Calcium Carbonate**

**GENERAL DESCRIPTION**

Calcium Carbonate (CaCO<sub>3</sub>) is an acid soluble weighting and bridging agent for utilization in drilling, work over, and completion fluids.

**FEATURES AND BENEFITS**

As #0 or #325 Grind, these finer grinds 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 pressurized zones, and in completion and workover fluids.

#0 Grind CaCO<sub>3</sub> (Typical Particle Size)

Screen Size (Microns)	% Passing
No.40 (425)	99
No.60 (230)	98
No.70	96
No.80	94
No.100 (150)	85
No.200 (74)	67
No.325 (44)	35

#325 Grind CaCO<sub>3</sub> (Typical Particle Size)

Screen Size (Microns)	% Passing
No.325 (44)	95

**RECOMMENDED TREATMENT**

CaCO<sub>3</sub> may be added directly at the suction with agitation or through the mixing hopper.

To calculate the amount of CaCO<sub>3</sub> required, use this formula:

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

W<sub>1</sub> = present mud density in kg/m<sup>3</sup>

W<sub>2</sub> = desired mud density in kg/m<sup>3</sup>

For every 100 sacks of CaCO<sub>3</sub>, will increase the mud volume by 1 cubic meter.

**TYPICAL PHYSICAL PROPERTIES**

Appearance	Granular
Specific Gravity	2.71
pH	9.5-11.4 (aq. Sln)
Bulk density (#0)	1442 –1522 kg/m <sup>3</sup>
(#325)	1121 –1201 kg/m <sup>3</sup>

**HANDLING**

Calcium Carbonate is a controlled product using the WHMIS classification D2A. Refer to MSDS information for specific precautions and handling.

**AVAILABILITY**

Calcium Carbonate packaged in 25kg bags and is available from HiTech Fluid Systems Ltd.