

Carbonato de Calcio M10-40

Description

Carbonato de calcio M10-40 is a compound with formula CaCO_3 that occurs naturally as limestone, marble or chalk. It is an additive used as bridging – sealing agent to minimize invasion of filtrate and whole fluid to the formation. It is 98 – 99.5% acid soluble.

Applications

Carbonato de calcio M10-40 can be used alone or in combination with other LCM material. Acting as a bridge in the fractures and pores of the formation being drilled, it will minimize losses to the formation while circulating and in static conditions. It can be used in drilling, completion and workover fluids.

Features and Benefits

- Used as bridging agent in sandstones and permeable formations
- Agent for wellbore strengthening when drilling depleted zones
- Combined with other sealing agents minimizes and/or controls seepage and severe losses
- Minimizes formation damage

Typical Properties

Appearance	Solid
Color	White
Specific Gravity	2.7
Molecular Weight	100.87
D50 (microns)	Approx. 640

Recommended Treatment

Carbonato de calcio M10-40 is generally used in fluid loss control situation requiring a larger particle size than Carbonato de Calcio M40 -100 or finer. Typical concentration for bridging purposes is 15 – 30 lb/bbl (85.5 – 142.5 kg/m^3).

Carbonato de calcio M10-40 is not usually used as weighting agent, in case it is used for that purpose, the following is the formula for obtaining the amount of CaCO_3 required in lb/bbl:

$$= 945 * \frac{\text{Final density, lb/gal} - \text{Initial density, lb/gal}}{22.5 - \text{Final density, lb/gal}}$$

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

Carbonato de calcio M40-100 is available in 110 lb (50 kg) bags and in bulk.

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