



# PayZone® Carb Prime

## SOLIDS-BASED PILLS

### Overview

PayZone Carb Prime is a high purity, size controlled calcium carbonate bridging/solid weight material. The product is manufactured so that it exhibits a particle size distribution covering a range from <1 to 150 microns. The median (D50) particle size is 12 microns.

PayZone Carb Prime effectively bridges and seals low to moderate permeability formations and enhances filtercake characteristics. PayZone Carb-Prime may also be used as a solid weight material to increase the density of fluid systems.

PayZone Carb Prime is an effective bridging and sealing agent for low-porosity and low-permeability formations, and is easily removed by acidizing. It is an effective additive for increasing the density of fluid systems, and may be used to improve the filtration rate and enhance filtercake formation in drilling fluids. PayZone Carb Prime mixes easily into all types of brine fluids.

### Features and Benefits

- Engineered particle size range from 2.0 to 150 microns and a D50 value of 12 microns
- Easily solubilize with acids
- Retains particle size longer while drilling than sedimentary calcium carbonates
- Suitable for use in oil and water based fluids
- Is sized to flow through prepacked screens without bridging

### Applicable Information

PayZone Carb Prime bridging/solid weight material should be added slowly through the rig hopper and mixed thoroughly to insure uniform dispersion. PayZone Carb Prime bridging/solid weight material can be added directly to the circulating system via the mix hopper or incorporated within discrete fluid loss pills.

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02/13/2019

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### Physical Properties

Appearance	Fine white powder
pH	8.0 - 9.0
Specific gravity	2.7 - 2.9
Water Solubility	.0018 gm/100 ml H <sub>2</sub> O @100°C
Acid Solubility	92% min in 15% HCL solution

### Recommended Treatment

In pre-pack fluids, PayZone Carb Prime bridging/solid weight material should be used at a concentration of 20 to 60 lb/bbl. When PayZone Carb Prime is used as a bridging supplement, treatment concentration can range from 3 to 30 lb/bbl. In formulation of fluid loss pills, PayZone Carb Prime bridging/solid weight material may be used at a concentration of 20 to 60 lb/bbl.

### Safety and Handling

Avoid skin and eye contact, inhalation or ingestion. For skin contact, wash with soap and large quantities of water. For eye contact, flush with large quantities of water. Use properly designed respirator if adequate ventilation is not available. Refer to the Safety Data Sheet for specific details.

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