

# MAXCAP D

## Description

MAXCAP D is a low molecular weight, anionic polyacrylamide available as a dry granular powder. When added to water-based systems, this polymer disperses rapidly promoting a smooth hydration to occur without creating lumps. Due to its low molecular weight, this product has a substantially small effect on the rheology of a fluid system while still providing excellent shale inhibition and encapsulation. Dosage rates of up to 2 - 3 ppb (6.0 – 8.5 kg/m<sup>3</sup>) are attainable.

## Applications

MAXCAP D is widely used for shale inhibition and borehole stability when drilling through reactive shale. Often, this product is added in conjunction with other clay and shale inhibitors to formulate various inhibitive water based drilling fluids. It can be added to fresh, KCl, and other inhibitive salts or sea water based drilling fluid systems. MAXCAP D can enhance fluid lubricity, and helps reduce the turbulent flow caused by high shear rates.

## Features and Benefits

- MAXCAP D is an excellent shale encapsulator and stabilizer.
- Can be used alone or in conjunction with other shale inhibitors.
- Minimal accumulation of fines solids resulting in high ROP, increased efficiency of SCE and better fluid reusability.
- Reduces filtration rates.
- Improves fluids lubricity.
- Improved wellbore stability with minimal erosion and washouts.

## Typical Properties

Appearance	Granular solid
Color	White
Bulk Density	0.7 gr/cc
pH (0.5% Sln. @25°C)	6.0 – 8.0
Solubility	Soluble in water

## Recommended Treatment

MAXCAP D is usually added at a concentration of 1 - 3 ppb (2.5 – 8.5 kg/m<sup>3</sup>) to the drilling fluid to ensure good shale inhibition and encapsulation. It is recommended to treat out total hardness of the make-up water prior to adding.

The quantity of available MAXCAP D in the filtrate can be tested at the wellsite. The product depletes as it coats the cuttings and the wellbore during drilling process. Daily additions are needed to maintain effective product concentration as per well conditions (shale reactivity, ROP, well diameter).

## 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

MAXCAP D is available in 50 lb (22.7 kg) and 55 lb (25 kg) bags.

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