

# Sulfonated Asphalt

## Description

Sulfonated Asphalt is a modified sodium sulfonated asphaltic compound used as a shale stabilizer for water and oil based drilling fluids. It helps to form a thin, impermeable and tough filter cake, the small particles can effectively plug micro-fractures and shale pores.

## Applications

Sulfonated Asphalt is a versatile mud additive that stabilizes shale formations, reduces torque and drag, decreases API and HTHP filtration rates enhancing filter cake properties. The product can be mixed in most water-based and all oil-based and synthetic muds.

## Features and Benefits

- Significantly improves lubricity, reducing torque and drag of the drilling string
- Seals small fractures in stressed shale formations
- No emulsifiers needed to ensure proper mixing
- Inhibits clay swelling
- Do not need to bypass the solids control equipment while mixing it
- Helps prevent differential sticking

## Typical Properties

Appearance	Powder
Color	Dark brown
Specific Gravity	1.3
Solubility in water	75%
Odor	None

## Recommended Treatment

Typical concentrations of Sulfonated Asphalt are: 4.0 – 10.0 lb/bbl (11.4 – 28.5 kg/m<sup>3</sup>) for shale stabilization, 3.0 – 8.0 lb/bbl ( 8.5 – 22.8 kg/m<sup>3</sup>) for high temperature high pressure fluid loss control, 1.0 to 3.0 lb/bbl (2.8 – 8.5 kg/m<sup>3</sup>) to impart lubricity.

## 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

Sulfonated Asphalt is available in 50 lb (22.7 kg) bags.

No representations or warranties, either express or implied, of merchantability, fitness for a specific purpose, and/or that the products to which the information referred to in this document may be used without infringing the intellectual property rights of others, or of any other nature, are made with respect to information provided in this document, or the products referred to herein. In no case shall the information be considered a part of our terms and conditions of sale of QMax products or services. Use of the information provided in this report is at the user's risk.

*“Excellence, Innovation, Integrity, Teamwork and Safety”*

www.qmax.com – 11700 Katy Fwy, Ste 200, Houston, TX 77079 – Tel.: 832 672 4476