

## INFORMATION

# RHEOTHIN-CF

CHROME-FREE LIGNOSULFONATE/COPOLYMER MUD THINNER & CONDITIONER

### DESCRIPTION

RHEOTHIN-CF is a specially-developed chrome-free lignosulfonate in free-flowing powder form.

### APPLICATION

RHEOTHIN-CF is used to control rheology characteristics of a wide variety of drilling mud types, including calcium mud systems. RHEOTHIN-CF also contributes to filtration control and serves to emulsify oil. RHEOTHIN-CF may be used to replace conventional chrome and ferrochrome lignosulfonates in virtually any application, with benefits in terms of environmental impact and legal compliance.

### RECOMMENDED TREATMENT

Typical dosage is in the range of 1 to 6 ppb (2.9 to 17.1 kg/m<sup>3</sup>) for most applications. However, loading will vary with regard to the mud system, maximum temperature anticipated, and the amount of dispersion required. Therefore, it is recommended that laboratory pilot tests be conducted with the actual drilling mud to optimize the dispersant loading prior to use in the field.

RHEOTHIN-CF is acidic; therefore, after each addition, it is necessary to adjust the pH of the mud system to around 9.5 to 11.0. A pH within this range is important for the complete reaction and functionality of the product in the system.

### PACKAGING

Multi-ply paper bags with polyethylene moisture-proof layer. 50 lb or 25 kg net weight.

RHEOTHIN-CF is a Messina trademark