

# AMC BORE SEAL™

## LOST CIRCULATION MATERIALS



### Description

AMC BORE SEAL™ is a cellulose based product that is used to improve borehole stability by improving invasion control, seepage loss and other loss control situations.

It is available in three grades – (F)ine, (M)edium and (C)oarse. AMC BORE SEAL™ F fibres will matrix within the wall cake to form an impermeable thin skin on the filter bed resulting in minimal fluid invasion into the formation. AMC BORE SEAL™ M & C can be used as loss circulation additives when partial return or seepage loss is encountered.

### Application

AMC BORE SEAL™ F is added in the active system for borehole protection by reinforcing and strengthening the filter cake. AMC BORE SEAL™ F is ideal for drilling various formations such as micro-fractured shale, coal, unconsolidated sand and limestone. The medium grade is extremely effective in sealing medium to fine fractures and porous zones and can be used with most jet bits. Coarse grade AMC BORE SEAL™ seals large fractures and highly permeable formations and pumps easily through large jets or open pipe.

### Typical Physical Properties

Appearance:	Light tan to brown powder
Solubility:	Insoluble in water
pH (3% solution):	6.5- 7.5

### Advantages

- Controls seepage loss
- Stabilises unconsolidated sand formations
- Stabilises coal beds
- Prevents stuck pipe
- Compatible with most drilling fluid additives
- Environmentally acceptable
- Helps minimise formation damage resulting in high reverse permeability and increased production.

### Recommended Treatment

See the following reference table for various applications:

	AMC BORE SEAL™ F	AMC BORE SEAL™ M & C
To prevent or minimise	Active mud system	Concentration in pills
Lost circulation materials	For seepage loss 28.5 – 57kg / m³ 10 – 20lb / bbl	For moderate loss 71 – 114kg / m³ 25 – 40lb / bbl
Differential sticking & Sloughing of coal & shale	22.8 – 28.5kg / m³ 8 – 10lb / bbl	
Unconsolidated sand	42.8 – 57.1kg / m³ 15 – 20lb / bbl	
Coring fluid	38.3 – 57.1kg / m³ 15 – 20lb / bbl	38.3 – 71.3kg / m³ 15 – 25lb / bbl

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

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