

ANCO SCAV 100

Solutions Through Technology.....

Environmentally Friendly Chemicals

Product Description

ANCO SCAV 100 is a catalyzed aqueous solution of ammonium bisulfite.

Typical Application

ANCO SCAV 100 is used to control oxygen corrosion rates in water based drilling fluids. The sulfite ion (SO₃)⁻² reacts with dissolved oxygen (O)⁺² to form a stable sulfate(SO₄)⁻². ANCO SCAV 100 is applicable in all water based fluids where oxygen is present, and where the drilling fluid additives being used do not adequately reduce (scavenge) oxygen from the system.

Product Advantages

- Catalyzed solution is a highly effective oxygen scavenger for all water base mud systems.
- Can be pumped directly into the mud pump suction with an injection pump.
- Does not degrade in storage as powdered oxygen scavengers do.
- Does not require premixing or dilution prior to use.

Recommended Treatment

Sufficient ANCO SCAV 100 should be injected into the mud pump suction to maintain an excess of 80 to 100 mg/l of sulfite ion at the flowline. When possible, ANCO SCAV 100 should be pumped directly from the drum into the mud pump suction with a chemical injection pump. Where a pump is unavailable, ANCO SCAV 100 may be added to system (suction pit or mud pump suction line) via a submerged hose.

ANCO SCAV 100 should never be allowed to drip through the air into the mud, as atmospheric oxygen will react with it. Treating requirements will be dependent upon the amount of dissolved oxygen, the quantity of air entrapped, and the flowrate of the mud system.

When treating muds having a high calcium content (>200ppm), the sulfite ion will react with calcium to form calcium sulfite which has a limited solubility. When this occurs, the maximum apparent sulfite content of the fluid will be approximately 40 mg/l. The calcium sulfite will dissolve as the sulfite in solution reacts with oxygen. When treating calcium laden systems, add only sufficient ANCO SCAV 100 to maintain a sulfite residual (±20 mg/l is suggested), as measured at the flowline.

Handling

Employees should utilize normal precautions when handling chemical products. The use of a face shield or safety goggles, gloves and apron are recommended when handling this product. In case of eye contact, flush with clean, fresh water and seek medical advice. In case of skin contact, wash the affected area with soap and water. Review the Material Safety Data Sheet (MSDS) for this product prior to use.

Storage

Store in a an upright, closed container in a well ventilated area.

Packaging

ANCO SCAV 100 is supplied in 55 gallon non-returnable drums.

Typical Chemical and Physical Properties

Specific Gravity g/cm³ 1.3 @ 68°
Appearance Liquid
Color Pale Green to Yellow
Odor Ammonia
Boiling Point, °F 100°C
pH 4.9 - 5.3