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BERCOMS - BCS 601 Pipeline Corrosion Inhibitor (Water Soluble Corrosion Inhibitor)

Technical Data

BCS 601 Pipeline Corrosion Inhibitor is for use in pipeline and gathering systems for control of corrosion. BCS 601 Pipeline Corrosion Inhibitor offers superior performance to control and mitigate corrosive effects of a variety of corrosion situations. BCS 601 Pipeline Corrosion Inhibitor is effective for use in H₂S, CO₂, O₂ in methanol, and weak organic and inorganic acids.

Applications:

BCS 601 Pipeline Corrosion Inhibitor can be used (but is not limited to use) in the following applications:

- Natural Gas gathering systems including pipeline, separation and storage vessels.
- Crude oil gathering systems provided there is low water (brine) content.
- Methanol application systems such as hydrate control systems.
- Product (post refinery) pipelines carrying kerosene, gasoline or diesel.
- Midstream and downstream transmission systems including meter runs, pipelines and production equipment.

Advantages:

BCS 601 Pipeline Corrosion Inhibitor offers the following advantages over conventional corrosion inhibitors:

- The base corrosion inhibitor component of BCS 601 Pipeline Corrosion Inhibitor is stable to temperatures of 200°C.
- The neutralizer component can partially steam distill in water.
- BCS 601 Pipeline Corrosion Inhibitor is compatible with all fluids used to treat hydrates of natural gas.
- BCS 601 Pipeline Corrosion Inhibitor does not leave dry residue. The remaining form of BCS 601 Pipeline Corrosion Inhibitor after gas stripping is still mobile in situ and flows at temperatures of 25°C and above.
- BCS 601 Pipeline Corrosion Inhibitor will contribute to neutralizing the CO₂ and reduce acid surfaces.
- Strong penetrator component of BCS 601 Pipeline Corrosion Inhibitor assist in reducing "under sediment deposit" conditions.
- BCS 601 Pipeline Corrosion Inhibitor is soluble in all proportions in methanol, isopropanol and mutual solvents.

Recommended Dosage:

- In natural gas applications 1 US pint per MMSCFPD up to 1 US pint per 10 MMSCFPD.
- In crude oil with low water content: 3ppm to 10ppm.
- In refined product pipeline applications: 3 ppm to 25 ppm (nil moisture is present therefore concentration in water can be 10,000 times added if water is 0.1%.
- Natural gas lift systems: 50 ppm to 250 ppm based on fluid component of system.



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Recommended Dosage (cont);

Pickling use: up to 5000 ppm or ½% of total volume to be inhibited.
Methanol use to treat for oxygen corrosion and acidity: 100 ppm to 5000 ppm or 0.5%. This is required dosage for hydrate control systems.

Solubility Data:

Material	10% BCS 601	50% BCS 601
Methanol	Soluble	Soluble
Isopropanol	Soluble	Soluble
Fresh Water	Dispersible	Soluble
Brine Water	Dispersible	Dispersible
Kerosene	Insoluble	Insoluble
Crude Oil*	Insoluble*	Insoluble*

*BCS 601 Pipeline Corrosion Inhibitor disperses in crude oil at lower concentrations.

Composition:

Buffer Amine	40-50%
Filming Amine	25-30%
Acid Inhibitor	5-10%
Antioxidant	3-6%
Non-emulsifier/Biostat*	2-5%
Methanol	<10% (variable)

*Biostat prevents formation of new bacteria/organics. A biostat does not kill existing bacteria.

Physical Properties:

Density Kg/Liter	764 - 857
Density US pounds/gallon	6.36 - 7.14
Flash Point Degrees Centigrade	11°C
Pour Point Degrees Centigrade	Below -70°C
Viscosity CP @ 20°C	0.55 to 2.0
pH 5% in distilled water	9 to 10.5

DANGER: Flammable Liquid and Vapor. Refer to Material Safety Data Sheet for hazardous information.

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