

ZX-C2-02

Oil-Gas Gathering and Transportation Corrosion Inhibitor

General

Oil and gas gathering and transportation corrosion inhibitors ZX-C2-02 are widely used in the field of pipeline anti-corrosion in industries such as petroleum, natural gas, and urban gas. In these industries, pipelines are important transportation channels. If corrosion occurs inside the pipelines, it will lead to serious consequences such as pipeline damage, oil leakage and explosion. Therefore, it is of vital importance to use corrosion inhibitors to prevent corrosion of pipelines.

Oil-Gas Gathering and Transportation Corrosion Inhibitor ZX-C2-02 is a kind of water solubility film formation corrosion inhibitor, which is composed of home-grown composite pyridine quaternary ammonium salt as main ingredients, other synergist and surfactant. It can be applicable for petroleum, natural gas exploitation and gathering & transportation to protect pipelines inner wall from corrosion. It has good protection function for CO₂, H₂S, and other acid gases, as well as high salinity saltwater corrosion environment.

Composition

Composite pyridine quaternary ammonium salt, synergist and surfactant

Product

Appearance	Reddish brown liquid
Density	1.03-1.08 (g/cm ³ , 20°C)
Solubility	Good dispersibility in oil-water medium
Freezing point	≤ -15 °C
PH (1% aqueous solution)	5.0 - 7.0
Corrosion rate	≤ 0.076 (g/m ² .h)

Application

Working Principle

Oil and gas gathering and transportation corrosion inhibitor ZX-C2-02 is a kind of chemical substance that can form a protective film on the inner wall of the pipeline, preventing the pipe wall from coming into direct contact with the medium, thereby preventing corrosion inside the pipeline. In addition, corrosion inhibitors can also inhibit the corrosion reaction inside the pipeline by slowly releasing active substances, thereby achieving the effect of extending the pipeline's service life.

Advantages:

Oil and gas gathering and transportation corrosion inhibitor ZX-C2-02 has below advantages:

1. Excellent anti-corrosion effect: The oil and gas gathering and transportation corrosion inhibitor can form a uniform protective film, effectively preventing corrosion inside the pipeline and thus extending its service life.
2. Easy to use: The oil and gas gathering and transportation corrosion inhibitor can be used by injecting it into the pipeline or spraying it on the outside of the pipeline, which is simple to operate.
3. Economical and practical: Compared with traditional pipeline anti-corrosion methods, the use of oil and gas gathering and transportation corrosion inhibitors can reduce costs and improve anti-corrosion effects.
4. Environmental protection and safety: The oil and gas gathering and transportation corrosion inhibitor is an environmentally friendly and safe preservative that is harmless to the environment and human health.

Site Application

It is applicable for gathering & transportation pipelines containing high partial pressure CO₂ displacing oil technical process. High partial pressure CO₂ can control pipeline corrosion in the process.

Instructions

Calculated by liquid production capacity, generally add 30~50ppm. Appropriately increase amount for the severe corrosion area. The corrosion rate can reach more than 80%. As for the high salinity area, dilute by tap water to 10-20%, and then add it.

Product characteristic

Good effect on certain partial pressure CO₂, H₂S and high salinity corrosion.

Storage

ZX-C2-02 corrosion inhibitor should be stored in closed containers in a dry environment. The

expiry date is 2 years from production date and can be extended for extra 1 year after a successful testing of the physical and chemical index.

Packing

200L steel drum or 1000L IBC

Safety and handling

Skin Exposure:

If skin comes into touch with anything, wash it right away with lots of water and soap. Should irritability continue, consult a doctor.

Exposure of the Eye:

If water gets in your eyes, wash them thoroughly for at least fifteen minutes. Use your fingers to gently separate the eyelids to ensure proper flushing. Should irritability continue, consult a doctor.

Exposure by Inhalation:

If breathed in, get out into the fresh air. Give oxygen if needed. Make a doctor's appointment.

Oral Exposure: If ingested, rinse mouth thoroughly with water very away as long as the person is still conscious. Make a doctor's appointment.