

Oilfield Chemical Additives Supplier for

- Drilling
- Completion
- Production
- Stimulation

Corrosion inhibitor
For oil and gas transportation
CIT-200



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Oil and Gas Corrosion Inhibitors For crude oil pipeline and oil and gas production asset integrity.

Corrosion is one of the problems during the Oil and wet gas transporting, and this can be solved by adding corrosion inhibitor(CI) in most case. However, there are no standards for the CIs performance used in gas gathering and transportation pipelines, which may lead to some gaps between the R&D scientists and the needs of corrosion inhibitor users.



Based on the demand of Oil and Gas production companies for the CIs, Youzhu Chem provides tailored Corrosion inhibitors for oil and gas transportation.

Technical Index

Typical properties	
Appearance	Yellow, brownish yellow liquid
Specific Gravity, 20°C	0.8-10
pH (neat)	8.0-10.0
Soluble in water	Miscible
Ionic Charge	Nonionic
Flash point	Beyond 61°C

Product introduction

Oil and gas generally contain corrosive substances such as carbon dioxide, hydrogen sulfide and water in gathering pipelines, which cause serious corrosion to pipeline equipment. Conventional corrosion inhibitors have poor corrosion inhibition effect on oil and gas gathering pipelines and equipment. Based on the study of corrosion mechanism and characteristics of oil and gas gathering and transportation, a corrosion inhibitor for oil and gas gathering and transportation was developed. The corrosion inhibitor has the characteristics of low corrosion rate and wide application range, which can meet the complex working conditions in oilfield.

Safety Precautions

Refer to the safety data sheet (SDS) for handling, transport, environmental information, and first aid.

Usage

The recommended usage of this product 20-60mg/L. When the partial pressure of hydrogen

sulfide and carbon dioxide is high, the addition concentration of the product needs to be increased to ensure the effect.

For the transportation process of oil and gas reservoirs containing carbon dioxide and hydrogen sulfide, pipeline corrosion prevention is particularly important. These gases can cause corrosion when they come into contact with metal surfaces, necessitating measures to protect pipelines and equipment. Imidazoline compounds play a crucial role in this process, with their main functions including:

1. **Corrosion Inhibition:** Imidazoline compounds act as corrosion inhibitors, forming a protective film on the pipeline surface to prevent direct contact between the corrosive medium and the metal surface, thereby slowing down the occurrence of corrosion. Particularly for oil and gas containing carbon dioxide and hydrogen sulfide, imidazoline compounds provide effective corrosion protection for pipelines.
2. **Acid Resistance:** Imidazoline compounds have a certain degree of acid resistance, maintaining stability in acidic environments and reducing the corrosive effects of acidic gases on pipelines.
3. **Multifunctionality:** Imidazoline compounds not only serve as corrosion inhibitors but can also be combined with other additives to provide multiple functions, such as antimicrobial and antioxidative properties, thereby enhancing the overall corrosion prevention performance of pipelines.

In summary, imidazoline compounds play a significant role in the transportation process of oil and gas reservoirs containing carbon dioxide and hydrogen sulfide. Their corrosion inhibition and acid resistance properties make them an essential component of pipeline corrosion prevention. By applying imidazoline compounds appropriately, pipelines and equipment can be effectively protected, extending their service life and ensuring the safety and reliability of the oil and gas transportation process.

Applications

- Carbon dioxide oil and gas
- Carbon-rich oil and High salinity oil
- Hydrogen sulphide oil and gas

Features and Benefits

- Imidazoline after modification has better stability, higher corrosion inhibition performance and lower emulsification tendency
- Provide corrosion protection in all H₂S、 and CO₂ system
- Add bactericide to inhibit bacterial corrosion
- High flash point, safe to use
- Improves design flexibility because it is applicable to a wide range of oil, which can meet the requirements of complex oilfield conditions.
- Disperses easily in all oil and gas fluids
- Disperses easily in all oil and gas fluids

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Youzhu Chem offers a wide range of oil field chemicals widely used in the various stages of oil and gas production. And we have developed the finest quality Oil Soluble Demulsifier, Water Soluble Demulsifier and Corrosion Inhibitors. Our products enable customers to maximize value in their oilfield operations, and increase the overall efficiency of the well.