

Oilfield Chemical Additives Supplier for

- Drilling
- Completion
- Production
- Stimulation

Corrosion Inhibitor for Gas Well

UZ CI-G100



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Corrosion Inhibitor is a Drilling Fluid Additive that is added to the Drilling Fluids to avoid or Eliminated Corrosion which causes pitting and fatigue of metal surfaces, leading to the early and sudden failure of metal products such as drill collars, casing and specialty tools.

Corrosion inhibitors have been used in oil and gas wells since the 1930s. These days, corrosion inhibitors are well-known as the most common method of corrosion control, particularly in wells made of carbon steel components.



Technical Index

Appearance	Brown or reddish-brown liquid
pH (1%)	6.0-9.0
Solubility	Soluble in oil
Freezing point	Below -20°C
Flash point (closed)	Beyond 30°C

Product introduction

UZ CI-G100 is suitable for high chlorine ion, high sulfur ion and bicarbonate ions gas well, it can form a protective film on the metal surface and prevents from corrosion. During the process of oil and gas extraction, pipelines and equipment are often subjected to corrosion from corrosive substances such as carbon dioxide, hydrogen sulfide, and chlorine ions. This poses a serious threat to the safety and reliable operation of pipeline equipment. Traditional corrosion inhibitors have limited effectiveness in such highly corrosive environments, thus necessitating the development of a new type of corrosion inhibitor capable of effectively addressing these challenges.

Based on an in-depth study of the corrosion mechanisms and characteristics present in the process of oil and gas gathering and transportation, we have developed a corrosion inhibitor specifically tailored for oil and gas gathering and transportation. This corrosion inhibitor exhibits a low corrosion rate and a wide application range, capable of meeting the complex working conditions encountered in oilfields.

The development of this corrosion inhibitor is rooted in a deep understanding of the corrosion mechanisms inherent in the process of oil and gas gathering and transportation. It effectively

inhibits the corrosion caused by carbon dioxide, hydrogen sulfide, and chlorine ions, reducing the corrosion rate and extending the service life of pipelines and equipment. Furthermore, this inhibitor boasts a wide application range, adaptable to various types of oil and gas gathering and transportation.

Protecting equipment and pipelines in high-chloride, high-sulfur, and high-carbon dioxide gas fields from corrosion is a critical aspect of oil and gas production. The presence of these corrosive substances poses significant challenges to the integrity and longevity of the infrastructure.

In such environments, the selection and application of corrosion inhibitors play a crucial role in mitigating the detrimental effects of corrosion. Corrosion inhibitors are designed to impede the corrosion process by forming a protective layer on the metal surface or by altering the electrochemical properties at the interface between the metal and the corrosive environment. For high-chloride, high-sulfur, and high-carbon dioxide gas fields, the corrosion inhibitors need to be specifically formulated to withstand the unique challenges posed by these environments. They should exhibit high-temperature stability, resistance to high-pressure conditions, and effectiveness in the presence of high chloride and sulfur content. Additionally, the inhibitors should be compatible with the specific metallurgy used in the equipment and pipelines.

It's also important to consider the environmental impact of the corrosion inhibitors used in these fields. Ensuring that the inhibitors are environmentally friendly and compliant with regulatory standards is essential for sustainable operations.

Furthermore, the application of corrosion inhibitors should be complemented with comprehensive monitoring and maintenance programs to ensure the ongoing effectiveness of the corrosion protection measures. Regular inspections, corrosion rate measurements, and inhibitor performance assessments are vital for maintaining the integrity of the infrastructure in these challenging environments.

Application

Corrosion inhibitor UZ CI-G100 can be used to protect gas well from H₂S, Cl⁻, CO₂ corrosion, the recommended dosage is 50-100mg/L.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet.

Packaging and Storage

Packed in 200Litre drum or 1000 Litre IBC (Tote Tank).

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames.

Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.

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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.