
Product Data Sheet 【CI 201】

Description:

- CI 201 is a composite pyridine quaternary ammonium salt-based corrosion inhibitor with added synergists and surfactants.
- It has good dispersion in hydrochloric acid and mud acid media and provides excellent corrosion protection in high-concentration hydrochloric acid, mud acid, and other organic acid environments.
- It is suitable for a wide range of acids and can also be used for pipeline acid washing operations.

Applications:

- Controlling equipment corrosion
- Suitable for oil well acidizing fracturing processes
- Usable in temperatures of 60~90°C, 15~20% HCl, high-concentration mud acid, and organic acid oil well acidizing fracturing processes.

Typical Properties

Appearance	Brownish red to brown liquid
pH (1% aqueous solution)	4.0 ± 1.0
Specific gravity (@20°C, g/cm ³)	1.00 ± 0.05

Shipping and Handling Precautions

Contact with skin and eyes should be avoided. Exposures should be washed with large amounts of water.

Product Data Sheet 【CI 203】

Description

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- It has good dispersion in hydrochloric acid and mud acid media and provides excellent corrosion protection in high-concentration hydrochloric acid, mud acid, and other organic acid environments.
- It is suitable for a wide range of acids and can also be used for pipeline acid washing operations.

Application

- Controlling equipment corrosion
- Suitable for oil well acidizing fracturing processes
- Usable in temperatures of 120~140°C, 15~20% HCl, high-concentration mud acid, and organic acid oil well acidizing fracturing processes.

Typical Properties

Appearance	Brownish red to brown liquid
pH (1% aqueous solution)	4.0 ± 1.0
Specific gravity (@20°C, g/cm ³)	1.00 ± 0.05

Shipping and Handling Precautions

Contact with skin and eyes should be avoided. Exposures should be washed with large amounts of water.

Product Data Sheet 【CI 401】

Description

- CI 401 is a Mannich base-based corrosion inhibitor synthesized from cinnamaldehyde, acetophenone, polyamine, and formaldehyde.
- It has multiple active adsorption centers, including N and O atoms, and structures with π electrons such as benzene rings and double bonds.
- It forms a protective film on the metal surface through chemical adsorption, effectively inhibiting metal corrosion in acidic environments.

Application

- Controlling equipment corrosion
- Suitable for oil well acidizing fracturing processes
- Usable in temperatures of 100~135°C, 25~28% HCl, high-concentration mud acid,

and organic acid oil well acidizing fracturing processes.

Typical Properties

Appearance	Brownish red to brown liquid
pH (1% aqueous solution)	4.5 ± 1.0
Specific gravity (@20°C, g/cm ³)	1.04 ± 0.05

Shipping and Handling Precautions

Contact with skin and eyes should be avoided. Exposures should be washed with large amounts of water.

Package

Corrosion inhibitor is packaged in 55-gal (208L) drums containing 462-lb (210kg) net weight.