



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-81-1503-210

AcidCorr Shield 81 Acid Corrosion Inhibitor

RXSOL ACIDCORR SHIELD 81 is a **high-performance acid corrosion inhibitor** formulated for use in **hydrochloric acid (HCl) systems**, including **coiled tubing (CT)**, **acidizing**, **bullheading**, and **scale removal** operations. The product is a **solvent-based blend of surface-active and acid-stable components** that protect metal surfaces from acid attack at both low and elevated temperatures.

Application				Properties	
Application	Typical HCl Concentration	Temperature Range	Purpose / Notes	Property	Value
Coiled Tubing (CT) Acidizing	15-28%	Up to 180°C	Protects internal CT surfaces during high-pressure acid injection	Appearance	Amber to brown clear liquid
Matrix Acidizing / Bullheading	10-28%	Ambient to 150°C	Prevents corrosion of tubing, casing, and surface iron during stimulation	pH (1% solution)	6-9
High-Temperature Acid Jobs	15-28%	120-180°C	For deep wells or formations requiring high-temp acid treatment	Density @ 25°C	0.95 - 1.00 g/cm ³
Acid Cleaning (vessels, exchangers, lines)	10-15%	30-90°C	Protects internal surfaces during descaling and rust removal	Solubility	Dispersible in HCl and brine
Hydrotesting (acidified brine or water)	1-5%	Ambient	Corrosion prevention during pressure testing or temporary preservation	Flash Point (closed cup)	~32°C
Continuous Injection (pipeline/system protection)	Trace acid in system	Ambient to 100°C	Prevents low-level corrosion due to acidic contaminants in process fluids	Pour Point	Below 5°C
				Shelf Life	12 months (sealed container)
				Features	
				Feature	Benefit
				Dual-action protection	Combines film-forming amine with acid-stable propargyl alcohol for superior corrosion inhibition
				Effective in strong acids	Provides reliable protection in 15-28% HCl and other mineral acids
				High-temperature stability	Maintains performance, ideal for deep wells and CT operations
				Surface-active film formation	Creates a hydrophobic barrier on metal to resist acid attack
				Built-in emulsifiers	Enhances dispersion and compatibility in acid systems
				Broad application range	Suitable for acidizing, bullheading, hydrotesting, and cleaning operations

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