

CATIONIC ACID CORROSION INHIBITOR

HWCI-401

HWCI-401 is a winterized high performance hydrochloric acid corrosion inhibitor. This product can generally be used as a stand alone inhibitor, or it can be boosted with intensifier for extremely high temperatures or prolonged exposures. HWCI-401 can be used in traditional anionic and cationic acid fluid systems.



HWCI-401 is typically used between 0.2 and 2%, depending on the temperature, exposure time and metallurgy.

PROPERTIES

Appearance Liquid, Brown

Odour Characteristic

pH (1%) 4-6

Freeze -45°C

Flash 25°C

Density 0.97

HANDLING & STORAGE

Handle wearing appropriate PPE. Ensure adequate ventilation. Store out of direct sunlight. Refer to SDS for more information.

PERFORMANCE

Table 1. 15% HCl, J-55 Steel Results								
			HWCI-401					
Temp (°F/°C)	Test Time	% Formic	% Inhibitor	Corrosion Rate (lb/ft²)	Pit Rank			
150 / 66	24 Hrs	0	0.2	0.0040	0			
200 / 93	16 Hrs	0	0.6	0.0190	0			
250 / 121	6 Hrs	4	0.6	0.0083	0			
350 / 177	2 Hrs	6	2	0.0498	3			

Table 2. 28% HCl, J-55 Steel Results									
			HWCI-401						
Temp (°F/°C)	Test Time	% Formic	% Inhibitor	Corrosion Rate (lb/ft²)	Pit Rank				
150 / 66	24 Hrs	4	1	0.007	0				
200 / 93	16 Hrs	6	2	0.068	3				
250 / 121	6 Hrs	6	2	0.078	3				