



HYBRID CHEMICAL
TECHNOLOGIES

ACID CORROSION INHIBITOR

HWCI-401HT

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

APPLICATION

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

PROPERTIES

Appearance	Liquid, Brown
Odour	Characteristic
pH (1%)	1-3
Freeze	< -25°C
Flash	> 100°C
Density	1.12

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

Temp (°F/°C)	Test Time	% Formic	HWCI-401HT		
			% Inhibitor	Corrosion Rate (lb/ft ²)	Pit Rank
150 / 66	24 Hrs	0	0.2	0.0039	0
200 / 93	16 Hrs	0	0.6	0.0186	0
250 / 121	6 Hrs	4	0.6	0.0085	0
350 / 177	2 Hrs	6	2	0.0486	3

Table 2. 28% HCl, J-55 Steel Results

Temp (°F/°C)	Test Time	% Formic	HWCI-401HT		
			% Inhibitor	Corrosion Rate (lb/ft ²)	Pit Rank
150 / 66	24 Hrs	4	1	0.0068	0
200 / 93	16 Hrs	6	2	0.0652	3
250 / 121	6 Hrs	6	2	0.0775	3