



**HYBRID CHEMICAL  
TECHNOLOGIES**

# **ACID CORROSION INHIBITOR**

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## **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

<b>Appearance</b>	Liquid, Brown
<b>Odour</b>	Characteristic
<b>pH (1%)</b>	1-3
<b>Freeze</b>	< -25°C
<b>Flash</b>	> 100°C
<b>Density</b>	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 <sup>2</sup> )	Pit Rank
150 / 66	24 Hrs	0	0.2	<b>0.0039</b>	0
200 / 93	16 Hrs	0	0.6	<b>0.0186</b>	0
250 / 121	6 Hrs	4	0.6	<b>0.0085</b>	0
350 / 177	2 Hrs	6	2	<b>0.0486</b>	3

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

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