



HYBRID CHEMICAL
TECHNOLOGIES

NON-IONIC ACID CORROSION INHIBITOR

HNCI-402

HNCI-402 is a non-ionic cost-competitive hydrochloric acid corrosion inhibitor. This product can generally be used as a stand alone, or it can be boosted with general intensifier for high temperatures or prolonged exposures. Due to its non-ionic nature, HNCI-402 can be used in traditional anionic as well as cationic acid fluid systems.

APPLICATION

HNCI-402 is typically used between 0.2 and 0.8%, depending on the temperature, exposure time and metallurgy.

PROPERTIES

Appearance	Liquid, Pale Yellow
Odour	Alcoholic
Charge	Non-ionic
Freeze	-40°C
Flash	25°C
Density	0.86

HANDLING & STORAGE

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

PERFORMANCE

Temp (°C)	Coupon	Test Duration (hr)	Inhibitor Conc.	HCl %	Formic Acid %	Corrosion rate (lbs/ft ²)
70	P-110	6	2.0 L/m ³	15%	-	0.0120
80	P-110	6	2.0 L/m ³	15%	-	0.0223
90	P-110	6	4.0 L/m ³	15%	-	0.0336
100	P-110	6	6.0 L/m ³	15%	-	0.0385
110	P-110	6	6.0 L/m ³	15%	1%	0.0500
70	P-110	6	2.0 L/m ³	20%	-	0.0227
80	P-110	6	2.0 L/m ³	20%	-	0.0496
90	P-110	6	4.0 L/m ³	20%	-	0.0499
100	P-110	6	8.0 L/m ³	20%	-	0.0227