

PROHIB 170 SPEC SHEET

Acid Inhibitor

ProHib 170 is an excellent mineral acid corrosion inhibitor for use at moderate to high temperatures. ProHib 170 coats the metal with a thin film barrier to protect against the destruction by direct contact with the acid. The excellent dispersability of ProHib 170 insures that the inhibitor comes into contact with the metal instead of floating out on top of the acid.

TYPICAL PHYSICAL PROPERTIES

- **Flash Point (°F/°C):** 50 / 10
- **Freeze Point (°F/°C):** -20 / -28.9
- **Charge:** Cationic in acid
- **Specific Gravity:** 0.861 - 0.921
- **Solubility:** Water & Acid Dispersible

PACKAGING

- ProHib 170 is available in 55 gallon drums or 330 gallon tote tanks. Other packaging options may be available upon request.

Acid Strength	Temp (°F)	ProHib 170 gpt
15%	150	1.0 - 3.0
	175	2.0 - 4.0
	200	4.0 - 10.0
	225	8.0 - 10.0
	250	8.0 - 10.0
28%	275	20.0
	300	10.0+ Intensifier
	350	20.0+ Intensifier
	150	2.0 - 9.0
	175	6.0 - 20.0+ Intensifier
	200	8.0 - 20.0+ Intensifier
	225	10.0 - 15.0+ Intensifier
	250	15.0 - 20.0+ Intensifier

RECOMMENDED APPLICATION

- ProHib 170 can be used in acid strengths up to 28% hydrochloric acid. It is effective to 200°F without the use of an intensifier and to 350°F when used with an intensifier such as Buffer A. The table below gives approximate use rate guidelines. More precise dosage is determined by: (1) the acid type and strength, (2) temperature, (3) type of steel, (4) amount of other additives and (5) contact time. The best performance is obtained by testing at the particular job conditions expected.

Contact our sales team to discuss elevating your performance at info@profrac.com or by phone at 254-PRO-FRAC.



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I. Performance Test Results in 15% HCl

Temp Test °F	Test Pressure psi	ACI-130 Con. gpt	Contact Time hrs.	Cou-pon Type	Corro-sion lbs/ft
150	Atmo-spheric	1.0	6	J-55	.0041
		1.0	24	J-55	.0071
		2.0	24	J-55	.0041
		3.0	24	J-55	.0051
175		1.0	6	J-55	.0463
		2.0	6	J-55	.0081
		3.0	6	J-55	.0051
		3.0	24	J-55	.0091
		4.0	24	J-55	.0071
		5.0	24	J-55	.0071
200		3.0	6	J-55	.0082
		4.0	6	J-55	.0081
		5.0	6	J-55	.0081
		6.0	24	J-55	.0151
		8.0	24	J-55	.0131
		10.0	24	J-55	.0101
225	2,000	8.0	6	J-55	.0091
		10.0	6	J-55	.0091
250	3,000	8.0	6	J-55	.0424
		8.0 ⁽¹⁾	6	J-55	.0141
		10.0	6	J-55	.0262
		10.0 ⁽¹⁾	6	J-55	.0131
		20.0	6	N-80	.028
275		20.0	6	N-80	.045
300		10.0 ⁽²⁾	6	N-80	.0282
		10.0 ⁽³⁾	6	N-80	.0242
		10.0 ⁽⁴⁾	6	N-80	.0222
		20.0 ⁽²⁾	6	N-80	.0262
		20.0 ⁽³⁾	6	N-80	.0242
		20.0 ⁽⁴⁾	6	N-80	.0232
350	4,000	20.0 ⁽²⁾	3	N-80	.0351
		20.0 ⁽³⁾	3	N-80	.0331
		20.0 ⁽⁴⁾	3	N-80	.0271

II. Performance Test Results in 28% HC

Temp Test °F	Test Pressure psi	ACI-130 Con. gpt	Contact Time hrs.	Cou-pon Type	Corro-sion lbs/ft
150	Atmo-spheric	1.0	6	J-55	.0091
		2.0	6	J-55	.0061
		3.0	6	J-55	.0051
		3.0	24	J-55	.0101
		6.0	24	J-55	.0081
		9.0	24	J-55	.0061
175		4.0	6	J-55	.0232
		6.0	6	J-55	.0182
		8.0	6	J-55	.0121
		10.	24	J-55	.0262
		15.0	24	J-55	.0122
		20.0	24	J-55	.0102
200		8.0(A)	6	J-55	.0292
		8.0	6	J-55	.0071
225	2,000	10.0	6	J-55	.0402
		10.0(A)	6	J-55	.0191
		15.0	6	J-55	.0391
		15.0(A)	6	J-55	.0161
250	3,000	10.0	6	J-55	.1113
		10.0(A)	6	J-55	.0552
		10.0(B)	6	J-55	.0421
		15.0	6	J-55	.0953
		15.0(A)	6	J-55	.0502
		15.0(B)	6	J-55	.0421
		10.0(C)	6	J-55	.0311

- A. 16.7 pounds of ACI-INT 300 added as an intensifier per 1,000 gallons of acid
- B. 33.4 pounds of ACI-INT 300 added as an intensifier per 1,000 gallons of acid
- C. 16.7 pounds of ACI-INT 301 added as an intensifier per 1,000 gallons of acid.

- 1. 16.7 pounds of ACI-INT 300 added as an intensifier per 1,000 gallons of acid
- 2. 100 gallons of Buffer A added as an intensifier per 1,000 gallons of acid
- 3. 150 gallons of Buffer A added as an intensifier per 1,000 gallons of acid
- 4. 200 gallons of Buffer A added as an intensifier per 1,000 gallons of acid



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III. Performance Test Results in 9-1% HCl-HF

Temp Test °F	Test Pressure psi	ACI-130 Con. gpt	Contact Time hrs.	Cou-pon Type	Corro-sion lbs/ft
175	3000	6.	8	N-80	.009
225		20.0	6	N-80	.032
250		6.0 ⁽⁵⁾	6	N-80	.013

5. 20.0 pounds of AC- I-INT 301 added as an intensifier per 1,000 gallons of acid.

IV. Performance Test Results in 12-3% HCl-HF

Temp Test °F	Test Pressure psi	ACI-130 Con. gpt	Contact Time hrs.	Cou-pon Type	Corro-sion lbs/ft
200	2000	3.0	6	N-80	.007
		6.0	24	N-80	.013
225		6.0	6	N-80	.013
		8.0	6	N-80	.009
		10.0	6	N-80	.009
		6.0	24	N-80	.063
		8.0	24	N-80	.085
		10.0	24	N-80	.076
250		6.0	6	N-80	.036
		10.0	16	N-80	.093
		10.0 ^(D)	16	N-80	.032
275		10.0	6	N-80	.064
		20.0 ^(D)	6	N-80	.038
300		10.0	6	N-80	.143
		20.0 ^(D)	6	N-80	.034

D. 20 gallons of Buffer A added as an intensifier per 1,000 gallons of acid.

