

HASTELLOY® G-30® Alloy

Hydrochloric Acid

Conc. Wt.%	50°F	75°F	100°F	125°F	150°F	175°F	200°F	225°F	Boiling
	10°C	24°C	38°C	52°C	66°C	79°C	93°C	107°C	
1	-	-	-	-	<0.01	<0.01	<0.01	-	0.01
1.5	-	-	-	-	-	-	-	-	-
2	-	-	-	<0.01	<0.01	-	-	-	9.47
2.5	-	-	-	<0.01	1.04	2.06	4.23	-	12.67
3	-	-	<0.01	<0.01	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	<0.01	0.33	0.71	1.33	2.65	9.06	-	-
7.5	<0.01	0.05	-	-	-	-	-	-	-
10	0.08	0.19	0.44	0.64	1.48	3.96	15.21	-	-
15	0.13	0.31	0.66	1.87	1.47	-	11.98	-	-
20	-	0.13	0.3	0.55	1.24	-	10.9	-	-

All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.

Data are from Corrosion Laboratory Jobs 446-82, 168-89, and 66-96.

All tests were performed in reagent grade acids under laboratory conditions; field tests are encouraged prior to industrial use.

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Iso-Corrosion Diagram for G-30 Alloy in Hydrochloric Acid

