

HASTELLOY® G-35® Alloy

Sulfuric Acid

Conc. Wt.%	75°F	100°F	125°F	150°F	175°F	200°F	225°F	250°F	275°F	300°F	350°F	Boiling
	24°C	38°C	52°C	66°C	79°C	93°C	107°C	121°C	135°C	149°C	177°C	
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	0.07
10	-	-	-	-	-	<0.01	-	-	-	-	-	0.11
20	-	-	-	-	-	0.01	-	-	-	-	-	0.59
30	-	-	-	-	<0.01	2.62	-	-	-	-	-	-
40	-	-	-	<0.01	<0.01	5.41	-	-	-	-	-	-
50	-	-	-	<0.01	2.3	-	-	-	-	-	-	-
60	-	-	-	<0.01	2.45	-	-	-	-	-	-	-
70	-	<0.01	0.32	1.62	-	-	-	-	-	-	-	-
80	-	<0.01	<0.01	2.54	-	-	-	-	-	-	-	-
90	-	<0.01	0.54	3.12	-	-	-	-	-	-	-	-
96	-	<0.01	0.5	2.84	-	-	-	-	-	-	-	-

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 Job 45-02.

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-35 Alloy in Sulfuric Acid

