

HASTELLOY® G-35® Alloy

Phosphoric Acid

Conc. Wt.%	125°F	150°F	175°F	200°F	225°F	250°F	275°F	300°F	Boiling
	52°C	66°C	79°C	93°C	107°C	121°C	135°C	149°C	
50	-	-	-	-	-	-	-	-	0.01
60	-	-	-	-	-	-	-	-	0.01
65	-	-	-	-	-	-	-	-	0.17
70	-	-	-	-	0.01	0.09	-	-	0.11
75	-	-	-	-	-	0.12	-	-	0.3
80	-	-	-	-	0.07	0.12	0.37	-	0.42
85	-	-	-	-	0.07	0.14	0.31	0.71	0.99

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 5-03 and 30-04.

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 Phosphoric Acid

