

HAYNES® HR-235™ 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	-	-	-	-	-	-	-	-	-	-	-	0.08
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	0.14
10	-	-	-	-	-	<0.01	-	-	-	-	-	0.31
20	-	-	-	-	-	<0.01	-	-	-	-	-	0.49
30	-	-	-	-	-	<0.01	-	-	-	-	-	0.92
40	-	-	-	-	0.01	0.07	0.48	-	-	-	-	1.19
50	-	-	-	-	0.13	0.28	0.53	-	-	-	-	-
60	-	-	-	0.09	0.16	0.29	0.67	-	-	-	-	-
70	-	-	-	0.1	0.14	0.55	-	-	-	-	-	-
80	-	-	<0.01	0.19	0.36	0.66	-	-	-	-	-	-
90	-	-	0.08	0.13	0.61	1.58	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	-	-

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 2-13 and 38-13.

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 HR-235 Alloy in Sulfuric Acid

