

## HAYNES® HR-235™ 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	0.92	-	-	-
2.5	-	-	-	-	-	-	-	-	-
3	-	-	-	<0.01	1.46	1.52	-	-	-
3.5	-	-	-	-	-	-	-	-	-
4	-	<0.01	<0.01	0.81	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	-	<0.01	0.98	1.29	1.5	-	-	-
7.5	0.04	0.21	0.57	-	-	-	-	-	-
10	0.12	0.24	0.36	1.18	-	-	-	-	-
15	0.13	0.26	0.38	1.26	-	4.04	-	-	-
20	0.11	0.22	0.28	1.05	-	-	-	-	-

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 Hydrochloric Acid

