

## HAYNES® HR-235™ Alloy

### Nitric Acid

Conc. Wt.%	50°F	75°F	100°F	125°F	150°F	175°F	200°F	225°F	Boil- ing
	10°C	24°C	38°C	52°C	66°C	79°C	93°C	107°C	
10	-	-	-	-	-	-	-	-	<0.01
20	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	0.01
40	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	0.06
60	-	-	-	-	-	-	-	-	0.1
65	-	-	-	-	-	-	-	-	0.12
70	-	-	-	-	-	-	0.09	0.07	0.13

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 10-13 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 Nitric Acid

