HAYNES International

CORROSION-RESISTANT TECH BRIEF

ULTIMET® Alloy

Hydrochloric Acid

Conc. Wt.%	50°F 10°C	75°F 24°C	100°F 38°C	125°F 52°C	150°F 66°C	175°F 79°C	200°F 93°C	225°F 107°C	Boiling
1	-	-	-	-	-	-	-	-	<0.05
1.5	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
2.5	-	-	-	-	<0.01	<0.01	<0.01	-	43.85
3	-	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	-	-	-	0.01	5.75	-	-	-
7.5	-	-	-	-	-	-	-	-	-
10	-	<0.01	0.16	0.8	1.74	-	-	-	-
15	-	0.15	0.73	1.83	4.75	-	-	-	-
20	-	0.17	0.56	1.04	2.58	-	-	-	-

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 181-90.

All tests were performed in reagent grade acids under laboratory conditions; field tests are encouraged prior to industrial use.

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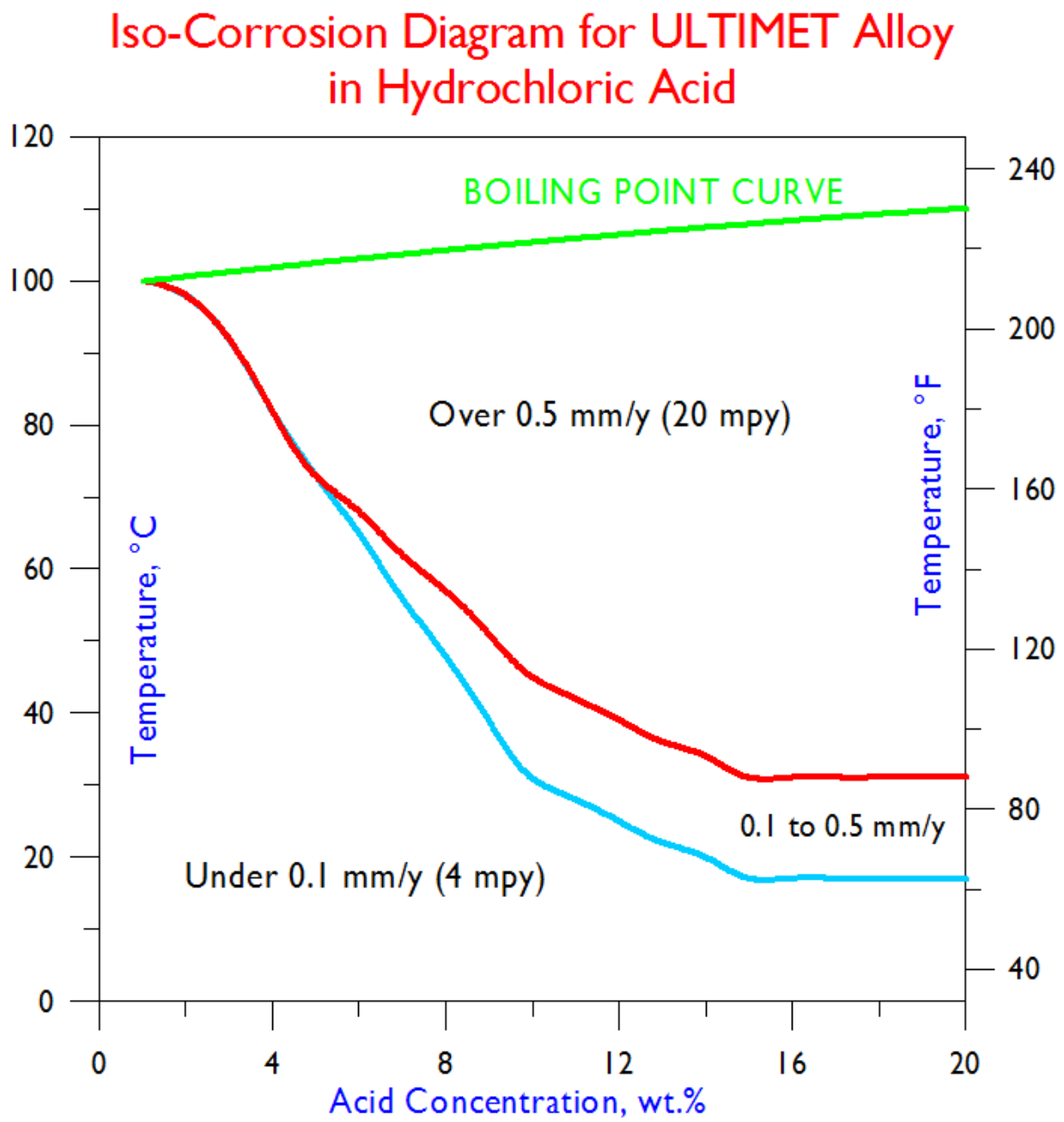

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