

ULTIMET® 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	-	-	-	-	-	-	-	-	-	-	-	0.13
2	-	-	-	-	-	<0.01	-	-	-	-	-	0.27
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	<0.01	-	0.01	-	-	-	-	-	1.26
10	-	-	-	-	-	0.43	-	-	-	-	-	1.92
20	-	-	-	<0.01	0.01	1.83	-	-	-	-	-	4.48
30	-	-	-	<0.01	1.36	3.58	-	-	-	-	-	10.54
40	-	<0.01	<0.01	0.29	2.25	-	-	-	-	-	-	20.94
50	-	<0.01	-	0.96	-	-	-	-	-	-	-	-
60	-	<0.01	<0.01	1.48	-	-	-	-	-	-	-	-
65	-	-	0.63	-	-	-	-	-	-	-	-	-
70	-	<0.01	0.55	-	-	-	-	-	-	-	-	-
80	-	<0.01	1.02	1.64	-	-	-	-	-	-	-	-
85	-	0.03	-	-	-	-	-	-	-	-	-	-
90	<0.01	0.26	1.68	-	-	-	-	-	-	-	-	-
96	<0.01	0.21	1.76	2.24	-	-	-	-	-	-	-	-

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 159-90 and 8-91.

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 ULTIMET Alloy in Sulfuric Acid

