

HASTELLOY® HYBRID-BC1® 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	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	0.07	-	-	-	-	-	0.03
20	-	-	-	-	-	-	-	-	-	-	-	0.06
30	-	-	-	-	-	0.08	-	-	-	-	-	0.09
40	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	0.06	0.11	-	-	-	-	0.24
60	-	-	-	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	0.03	0.11	0.22	1.71	-	-	-
80	-	-	-	-	-	-	0.05	0.24	0.52	-	-	-
90	-	-	-	-	-	0.03	0.06	0.14	0.38	0.94	-	-
96	-	-	-	-	-	-	0.11	0.21	0.45	1.11	-	-

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 24-07 and 4-08.

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 HYBRID-BC1 Alloy in Sulfuric Acid

