

HASTELLOY® HYBRID-BC1® Alloy

Hydrobromic 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 | |
| 2.5 | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | 0.08 |
| 7.5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | 0.01 | 0.05 | - | 0.21 |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | 0.04 | 0.31 | 0.37 | - | 0.47 |
| 25 | - | - | - | - | - | - | - | - | - |
| 30 | - | - | 0.11 | 0.17 | 0.24 | 0.31 | 0.37 | - | 0.68 |
| 40 | - | - | 0.09 | 0.14 | 0.2 | 0.28 | 0.34 | - | 0.85 |

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 23-07 and 5-08.

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 Hydrobromic Acid

