

HASTELLOY® C-2000® Alloy

Hydrofluoric 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 | |
| 1 | - | - | 0.01 | 0.03 | 0.08 | 0.18 | - | - | - |
| 5 | - | - | 0.02 | 0.09 | 0.33 | 0.57 | - | - | - |
| 10 | - | - | 0.06 | 0.22 | 0.56 | 0.99 | 2.27 | - | - |
| 20 | - | - | 0.21 | 0.48 | 0.68 | 0.67 | 0.74 | - | - |
| 30 | - | - | 0.25 | 0.62 | 1.61 | 1.34 | 1.46 | - | - |

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 3-99, 24-99, and 46-99.

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

Hydrofluoric acid is known to cause internal, as well as external, attack of the nickel alloys; these values signify only the amount of external attack encountered during laboratory testing.

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Iso-Corrosion Diagram for C-2000 Alloy in Hydrofluoric Acid

