

HASTELLOY® G-30® 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 | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | 0.47 |
| 10 | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | 0.78 |
| 20 | - | - | - | - | <0.01 | 0.36 | - | - | - | - | - | 1.35 |
| 30 | - | - | - | - | 0.01 | 0.55 | - | - | - | - | - | 1.53 |
| 40 | - | - | - | 0.02 | 0.05 | 0.54 | - | - | - | - | - | 1.95 |
| 50 | - | <0.01 | <0.01 | 0.01 | 0.26 | 0.56 | 0.93 | - | - | - | - | 3.68 |
| 60 | - | - | <0.01 | 0.09 | 0.27 | 0.73 | 1.07 | - | - | - | - | 8.46 |
| 70 | - | <0.01 | 0.01 | 0.11 | 0.36 | 0.98 | 1.38 | - | - | - | - | - |
| 80 | - | - | 0.31 | 1.13 | 2.62 | 4.52 | 4.7 | - | - | - | - | - |
| 90 | - | <0.01 | 0.67 | 2.01 | 3.25 | 6.55 | 6.25 | - | - | - | - | - |
| 96 | - | - | 0.45 | 1.86 | 2.04 | 1.86 | 1.52 | - | - | - | - | - |

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 449-82.

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 G-30 Alloy in Sulfuric Acid

