

## HASTELLOY® G-35® Alloy

### Hydrobromic Acid

| Conc.<br>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           | -    | -    | -     | -     | <0.01 | -     | <0.01 | -     | <0.01   |
| 5             | -    | -    | -     | -     | <0.01 | -     | <0.01 | -     | <0.01   |
| 7.5           | -    | -    | -     | -     | <0.01 | -     | <0.01 | -     | 0.02    |
| 10            | -    | -    | -     | -     | <0.01 | <0.01 | 1.12  | -     | -       |
| 15            | -    | -    | -     | -     | <0.01 | 0.41  | 1.89  | -     | -       |
| 20            | -    | -    | -     | <0.01 | 0.44  | 1.12  | -     | -     | -       |
| 25            | -    | -    | -     | -     | -     | -     | -     | -     | -       |
| 30            | -    | 0.01 | 0.14  | 0.26  | 0.46  | 0.84  | -     | -     | -       |
| 40            | -    | -    | 0.1   | 0.17  | 0.31  | 0.48  | -     | -     | -       |

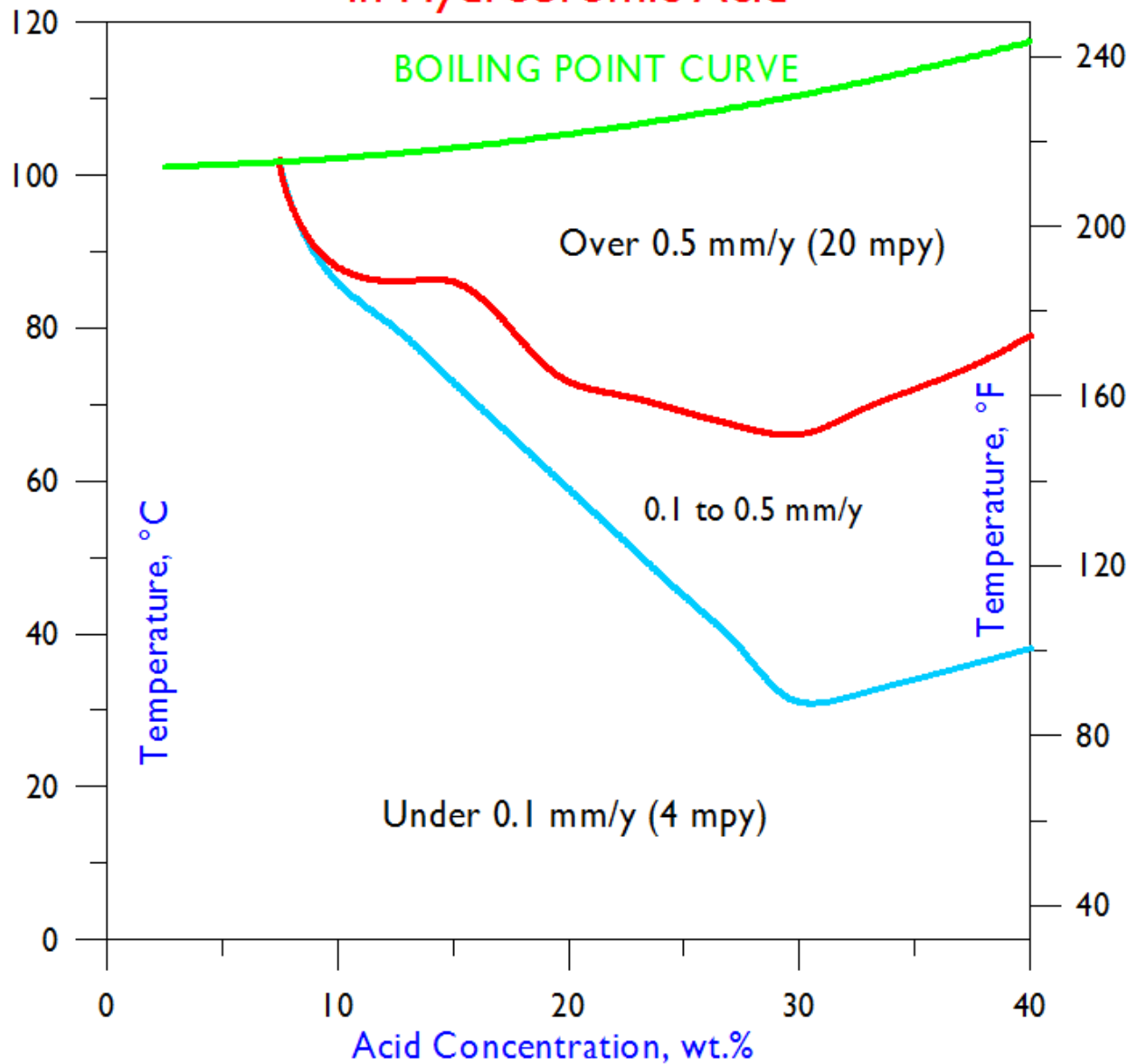
All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.

Data are from Corrosion Laboratory Job 17-04.

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-35 Alloy in Hydrobromic Acid



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