



### Characteristics and scope of application

- This material can be delivered in solution annealed and precipitation hardened condition.
- It has got excellent corrosion resistance at low and high temperatures.
- It shows especially good oxidation resistance up to 1832°F, and high strength up to 1200°F.

### Standard designations

- DN designation Chronin 718
- Alloy number / UNS 2.4668 / N07718
- Norms DIN 15156 / DIN 17744 / DIN 17752 / DIN 17753 / ASTM B 637 / API Standard 6A CRA / NACE MR 0175
- Typical chemical composition Ni 54%, Cr 18.5%, Fe 18%, Nb 5%, Mo 3%, Ti 1%

### Physical properties

| Density            | Temperature liquidus line | Electrical resistivity | Mean coefficient of thermal expansion |
|--------------------|---------------------------|------------------------|---------------------------------------|
| lb/in <sup>3</sup> | °F                        | Ohm CMF                | 10 <sup>-6</sup> /°F   68 to 212°F    |
| 0.30               | 2444                      | 752                    | 7.2                                   |

### Mechanical properties

| Ultimate tensile strength | Yield strength | Elongation  |
|---------------------------|----------------|-------------|
| ksi                       | ksi            | %           |
| 175*<br>196**             | 130*<br>160**  | 30*<br>20** |

\* Solution annealed and precipitation hardened acc. to API6A  
 \*\* Solution annealed and precipitation hardened acc. to ASTM B637