



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 1000°C, and high strength up to 650°C.

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
kg/dm ³	°C	Ohm mm ² /m	10 ⁻⁶ /K RT to 100°C
8.2	1340	1.25	13

Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
MPa	MPa	%
1200* 1350**	900* 1100**	30* 20**

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