

TECHNICAL DATA SHEET

Superalloy CX

General notes:

- Ni-Cr-Mo superalloy
- excellent strength from room temperature to 800 °C
- very high shape retention
- resistant to fatigue
- fully non-magnetic
- excellent corrosion resistance to most chemicals, salts and acids
- typical applications include non-magnetic tools for electronic and watch industry applications and for laboratory and medical applications in aggressive chemical and extreme environments (aerospace, nuclear, marine)

Mechanical properties

50% cold reduction
8.4 g/cm ³
220
925 MPa
485 MPa
50%
208 GPa

Thermal properties

Coef. of lin. therm expansion	12.8 E-6/°C	25°C-100°C
Coef. of lin. therm expansion	13.4 E-6/°C	25°C-300°C
Specific heat capacity	0.41 J/(g⋅K)	
Thermal conductivity	10 W/(m⋅K)	
Continuos use temperature	600°C	
Max service temperature, air	980°C	

Electrical properties

1.29 E-4 Ohm.cm Resistivity

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-Tek SA declines all responsibility from an improper use of the product described in this document.

