

NiCr 70/30 – Resistance Alloy

UNS N06008

Werkstoff – Nr. 2.4658

Common trade names NiCr 70/30, Resistohm 70, Nikrothal 70, Chromel 70/30, HAI-NiCr 70, Cronix 70, Inalloy 70, X30H70.

NiCr 70/30 is an austenitic nickel-chromium alloy for use at temperatures up to 1200 °C. The alloy is characterized by high resistivity and good oxidation resistance. It has good after-use ductility and excellent weldability.

Chemical Composition:

NiCr 70/30	C	Mn	Si	Cr	Cu	Fe	Ni
Min	–	–	0.5	29.0	–	–	60.0
Max	0.10	1.0	2.0	32.0	0.5	5.0	–

Physical properties:

Density g/cm ³	8.2
Electrical resistivity at 20 °C Ω mm ² /m	1.16 (1.19)*
Melting point °C	1380
Max continuous operating temperature in air °C	1200
Magnetic properties	non-magnetic

* Electrical resistivity 1.16 Ω mm² / m corresponds to an Oxidized Annealed condition
 Electrical resistivity 1.19 Ω mm²/m corresponds to a Bright Annealed condition

Mechanical properties:

Wire size, mm	Tensile strength Rm, MPa	Elongation, A %
Ø 1.0 – 10.0	Min 650	25 – 45
Ø 0.2 – 1.0	Min 650	18 – 45

Specification:

Product	Standard	Size, mm
Bar	DIN 17470 / 17471	Ø 2.0 – Ø 60.0
Strip	DIN 17470 / 17471	Thickness 2.5 – 5.0
Wire & Rod	DIN 17470 / 17471	Ø 0.2 – Ø 12.0

Supply conditions:

- Hot Finished and Cold Drawn
- Annealed, Bright Annealed and Oxidized Annealed
- Peeled and Turned

**Information contained in current technical sheet is written on the basis of the general experience of Vladimir Plant of Precision Alloys and considered to be correct at the time of issue. No warranty of any kind with respect to the publication as it may include technical inaccuracies or typographical errors. Customers are strongly recommended to base upon information from original quality certificates refer to the exact type of production or carry out independent tests in order to determine suitability for an application. If errors are found, please submit the correction via e-mail to: export@vlzps.ru. Your attention to this information is highly appreciated.

JSC VLADIMIR PLANT OF PRECISION ALLOYS



Kuybysheva street, 26, Vladimir, 600026, Russia
 D-U-N-S 566045858
en.vlzps.ru; export@vlzps.ru

Phones:
 +7 (495) 937-86-71 – export sales
 +7 (4922) 44-78-13 – production