VZPS

NiCr 30/20 – Resistance Alloy

NiCr 30/20

Werkstoff – Nr. 1.4860

NiCr 30/20 or Ni30Cr20 can be used at operating temperature up to 1100°C.
NiCr 30/20 is used as electric components in domestic appliances and other electric heating equipment. It has good ductility after long time usage, good mechanical property at high temperature and good weldability. Low carbon content ensures high ductility and other technological properties of NiCr 30/20.

Chemical Composition:

NiCr 30/20	C	Mn	Si	Cr	Cu	Fe	Ni
Min	–	–	1.8	18.0	–	balance	28.0
Max	0.10	1.0	3.0	22.0	0.5		31.0

Physical properties:

Density g/cm^3	7.9
Electrical resistivity at 20°C Ω mm^2/m	1.04
Melting point °C	1380
Max continuous operating temperature in air °C	1100
Magnetic properties	magnetic

Mechanical properties:

Wire size, mm	Tensile strength Rm, MPa	Elongation, A %
Ø 1.0 – 10.0	Min 600	25 – 45
Ø 0.2 – 1.0	Min 600	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**

JSC VLADIMIR PLANT OF PRECISION ALLOYS

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