

NiCr 60/15 – Resistance Alloy

UNS N06004

Werkstoff – Nr. 2.4867

Common trade names: NiCr 60/15, Ni60Cr15, Chromel C, N6, Nikrothal 60, Cronifer II, Alloy C, X15H60.

NiCr 60/15 is an austenitic nickel-chromium alloy for use at temperatures up to 1150 °C. Heat resistant alloy applied in oxidizing atmospheres such as nitrogen, ammonia, unstable atmospheres containing sulfur and sulfur compounds. NiCr 60/15 has higher heat-resisting characteristic than Iron-aluminum alloys.

Chemical Composition:

NiCr 60/15	C	Mn	Si	Cr	Cu	Fe	Ni
Min	-	-	0.5	14.0	-	19.0	59.0
Max	0.15	2.0	2.0	19.0	0.5	25.0	-

Physical properties:

Density g/cm ³	8.2
Electrical resistivity at 20 °C Ω mm ² /m	1.11 (1.13)*
Melting point °C	1390
Max continuous operating temperature in air °C	1150
Magnetic properties	slightly magnetic

* Electrical resistivity 1.11 Ω mm²/m corresponds to an Oxidized Annealed condition
 Electrical resistivity 1.13 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 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

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