



High Temperature Wire 1mm 1.5mm 2mm Braided Aluminum Alloy Wire Nickel Chromium Alloy Wire

Our Product Introduction

for more products please visit us on victory-alloy.com

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO 9001
- Model Number: Nimonic 90
- Minimum Order Quantity: 15
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



Product Specification

- Product Name: Nimonic 90
- Material: Nickel Chromium
- Density: 8.37g/cm³
- Melting Point: 1380°C
- Coefficient Of Expansion: 11.0 $\mu\text{m/m } ^\circ\text{C}$ (20 – 100°C)
- Annealed: 700 – 800N/mm²
- Spring Temper: 1200 – 1500N/mm²
- Highlight: **High Temperature Alloy 90,
Bright Surface High Temperature Alloy,
N07090 Nimonic 90 Wire**

Product Description

Nimonic alloy 90 is a precipitation hardenable nickel-chromium-cobalt alloy strengthened by the addition of Titanium and Aluminium. Alloy 90 has a high stress rupture strength and creep-resistant at temperatures to 920°C. Nimonic Alloy 90 is typically used in extreme stress applications such as turbine blades, hot working tools, exhaust reheaters, disc and high-temperature springs.

Chemical Composition Limits

W e i g h t %	N i	C r	C o	T i	A l	C	S i	C u	F e	M n	B	S	Z r	P b
Al lo y 9 0	B a l	1 8 - 2 1	1 5 - 2 1	2 - 3	1 - 2	0. 2 m a x	1. 0 m a x	0. 2 m a x	1. 5 m a x	1. 0 m a x	0. 0 2 m a x	0. 0 1 5 m a x	0. 1 5 m a x	0. 0 2 m a x

Typical Mechanical Properties

Material Extruded Bar	Temperature °C	Yield Strength 0.2 % (MPa)	Tensile Strength (MPa)	Elongation (%)
Nimonic 90 bar Solution Treated (BS HR2)	RT	-	-	-
Nimonic 90 bar Precipitation Treated (BS HR2)	RT	695 min	1080 min	20 min
Nimonic 90 Bar Precipitation Treated (BS HR2)	500	672 (typical)	1038 (typical)	31

Material Sheet	Temperature °C	Yield Strength 0.2 % (MPa)	Tensile Strength (MPa)	Elongation (%)
Nimonic 90 sheet Solution Treated (BS HR202)	RT	-	-	-
Nimonic 90 sheet Precipitation Treated (BS HR202)	RT	695 min	1080 min	25 min (0.45mm-3.0mm)
Nimonic 90 sheet Precipitation Treated (BS HR 202)	500	740 (typical)	995 (typical)	30
Alloy 90 Cold Rolled Sheet (Heat Treated)				

Availability

Nimonic Alloy 90 (Nimonic 90) is available in sheet, strip, plate, bar, round bar, flat bar, wire, forging stock, tube, welding wire and extruded section. For all stock availability contact Sales.

Specifications

UNS N07090

Werkstoff Nr. 2.4632

Werkstoff Br. 2.4969

NiCr20Co18Ti

NCK20TA (AIR 9165)

BS HR2

AMS 5829

MSRR 7137, MSRR 7017



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