

# Nimonic 90 | Alloy 90

## Typical Applications

Turbine Blades

Hot-Working Tools

High Temperature Springs

*Alloy 90 is an age hardenable, creep resisting alloy for service at temperatures up to 920 Deg C.*

## Technical specification

### Related Specifications

**BS 3 HR 2**

**ASTM B 637**

### Specific Gravity

**8.19 g/cm<sup>3</sup>**

### Chemical Composition (WT %)

	Min	Max
<b>Ni</b>	-	-
<b>Cr</b>	18.0	21.0
<b>Fe</b>		1.5
<b>Mn</b>		1.0
<b>Si</b>		1.0

<b>Cu</b>		0.2
<b>Al</b>	1.0	2.0
<b>Ti</b>	2.0	3.0
<b>Co</b>	15	21.0
<b>S</b>		0.015
<b>B</b>		0.020
<b>Zr</b>		0.150
<b>Ag</b>		5 ppm
<b>Bi</b>		1 ppm
<b>Pb</b>		20 ppm

*Typical Mechanical Properties*

<b>0.2% Proof Stress</b>	MPA	695
<b>Tensile Strength</b>	MPA	1080

<b>Elongation</b>	%	20
<b>Hardness</b>	HB	293

Need more information? **Get in touch**

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## Useful Links

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