

Nimonic 90 | Alloy 90

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

Specific Gravity

8.19 g/cm³

Typical Applications

Turbine Blades
Hot-Working Tools
High Temperature Springs

Related Specifications

BS 3 HR 2
ASTM B 637

Chemical Composition (Wt %)

	Ni	Cr	Fe	C	Mn	Si	Cu	Al	Ti	Co	S	B	Zr	Ag	Bi	Pb
Min		18.0						1.0	2.0	15						
Max		21.0	1.5	0.1	1.0	1.0	0.2	2.0	3.0	21.0	0.015	0.020	0.150	5 ppm	1 ppm	20 ppm

Typical Mechanical Properties

0.2% Proof Stress		Tensile Strength	Elongation	Hardness
MPA		MPA	%	HB
695		1080	20	293

* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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