

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								Related Specifications								
Turbine Blades Hot-Working Tools High Temperature Springs								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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