

NICKEL ALLOY Nimonic 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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