

NICKEL ALLOY 75

Alloy 75 is a creep resistant nickel-chromium alloy with a controlled carbon content and a small addition of titanium.

Alloy 75 has good mechanical properties and oxidation resistant at high temperatures.

Specific Gravity									
8.37 g/cm3									
Typical Applications						Related Specifications			
Components for industrial and aircraft gas turbines						BS HR5			
Industrial furnace components						BS HR504			
High Temperature fasteners						UNS N06075			
Thermocouple sheathing						DIN 17752			
Heat treating equipment and fixtures						ISO 9723			
W.Nr 2.4630									
Chemical Composition (Wt %)									
	Ni	Cr	Fe	C	Mn	Si	Cu	Al	Ti
Min	–	19	–	0.08	–	0.3	–	–	0.2
Max	Ba	21	5	0.13	1.0	0.7	0.5	0.3	0.6
Typical Mechanical Properties in the Solution Treated Condition									
0.2% Proof Stress				Tensile Strength		Elongation		Hardness	
MPA				MPA		%		HB	
240				650		25		<230 (less equal)	

* 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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