


Alloy X750



Introducing Alloy X750

Alloy X750 is a nickel chromium alloy similar to alloy 600 but made precipitation hardenable by the additions of titanium and aluminium. It combines a high tensile strength up to 600°C with good creep-rupture properties up to 820°C. In both low and high temperatures, it has a good corrosion resistance in wide oxidizing and reducing environments. Alloy X750 offers a high resistance to stress corrosion cracking.



Grade Names	
Grade	X750
Werkst.	2.4669
UNS	N07750
ASTM	B637
AMS	5667

Applicable Standards	
NACE	MR0175 / ISO15156-3
ASTM	B637
AMS	5698 No.1 Spring Temper
AMS	5699 Spring Temper
AMS	5667

Chemical Analysis					
Ni + Co	Cr	Fe	Nb	Ti	Al
Base (70% Min)	14 – 17%	5 – 9%	0.7 – 1.2%	2.25 – 2.75%	0.2 – 0.8%

Tensile Strengths	
Condition	Tensile
Annealed	800 – 1000 N/mm ²
Spring Temper	1100 – 1500 N/mm ²
No.1 Spring Temper	900 – 1150 N/mm ²

Available In:	
Round Wire	0.30 mm (0.0118") to 12.00 mm (0.472") dia.
Profile Wire	Up to 45 mm ² area in any shape

Packaging	
Spools	To customers requirement
Coils	0.50 kg coils through to 100 kgs
Cut Lengths	10 mm to 10 metres

Typical Applications

- + Spring Industry
- + Turbines
- + Pressure Vessels
- + Nuclear
- + Aerospace
- + Valves

Unit 3, Oxspring Wiremills,
Oxspring, Sheffield S36 8YW
T: +44 (0) 1226 763081
F: +44 (0) 1226 767164
E: sales@wintwire.co.uk

www.wintwire.co.uk