



Inconel* 718



Introducing Inconel* 718

Alloy 718 is an age-hardenable nickel-chromium alloy which combines good tensile, fatigue, creep and rupture strength to create an alloy that operates better than alloy X750 at lower temperatures.

***Trade names of Special Metals Group of Companies**



Grade Names	
Grade	Alloy 718
Werkst.	2.4668
UNS	N07718
AWS	013

Applicable Standards	
AMS	5662 / 5663
AMS	5832 / 5962
ISO	15156-3
NACE	MR 0175

Chemical Analysis																			
	C	Mn	Si	P	S	Cr	Co	Mo	Fe	Al	Ti	Ni	Nb/Cb	Ta	Cu	B	Pb	Bi	Se
Min %	-	-	-	-	-	17	-	2.80	-	0.20	0.65	50	4.75	-	-				
Max %	0.08	0.35	0.35	0.015	0.015	21	1.00	3.30	Bal.	0.80	1.15	55	5.50	0.05	0.30	0.006	0.0005	0.0003	0.0003

Tensile Strengths	
Condition	Tensile
Annealed	800 – 1000 N/mm ²
Spring Temper	1300 – 1500 N/mm ²

Available in	
Round Wire	0.08 mm (0.00315") to 12.00 mm (0.472" dia.)
Profile Wire	Up to 45 mm ² area in any shape

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

Typical Applications

- + Springs
- + Fasteners
- + Turbine Parts
- + Rocket Components
- + Aerospace

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