





Introducing Inconel* 600

Alloy 600 is a nickel based stable, austenitic solid-solution alloy. It has excellent carburization and offers good oxidation resistance at elevated temperatures. With a nickel content of a minimum of 72% the alloy offers a high resistance to corrosion in many environments whilst it is also known to be virtually immune to chloride-ion stress-corrosion cracking. Alloy 600 is slightly less machinable than free machine grade AISI303 stainless steel but slightly more machinable than AISI304.

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



Grade Names	
Grade	Alloy 600
Werkst.	2.4816
UNS	N06600
AWS	010

Applicable Standards	
AMS	5687
ASTM	B166
BS	3075 NA14
BS	3076 NA14
DTD	328A

Chemical Analysis															
	C	Mn	Si	P	S	Cr	Co	Mo	Fe	Al	Ti	Ni	Nb/Cb	Ta	Cu
Min %	-	-	-	-	-	14	-	-	6	-	-	-	-	-	-
Max %	0.10	1.00	0.50	0.04	0.015	17	-	-	10	-	-	72	-	-	0.50

Tensile Strengths	
Condition	Tensile
Annealed	600–800 N/mm ²
Spring Temper	900 – 1450 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

- + High Temp Components
- + Wire Belts
- + Machined Parts
- + Nuclear
- + Chemical Processing

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