

Inconel 600

UNS N06600

W.Nr. 2.4816

Nickel

Chromium

Iron

<https://www.arialloy.com/inconel-600/>

• Chemical Composition •

S%	Si%	C%	Mn%
≤ 0.015	≤ 0.50	≤ 0.15	≤ 1.00
Cu%	Fe%	Cr%	Ni%
≤ 0.50	6.0 ~ 10.0	14.0 ~ 17.0	≥ 72.0

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HR
Seamless Pipe & Tube	≤ 127mm Hot-worked	586	205	35	...	...
	≥ 127mm Hot-worked	515	170	35	...	...
	≤ 127mm Cold-worked	586	240	30	...	...
	≥ 127mm Cold-worked	586	205	35	...	...
Welded Pipe & Tube	Annealed	550	240	30	...	...
Round Bar	≤ 12.7mm Cold-worked	825	620	7	...	...
	12.7 ~ 25.4mm Cold-worked	760	585	10	...	...
	25.4 ~ 63.5mm Cold-worked	725	550	12	...	...
	6.4 ~ 12.7mm Hot-worked	655	310	20	...	...
	12.7 ~ 76.2mm Hot-worked	620	275	25	...	...
	≥ 76.2mm Hot-worked	585	240	30	...	...
Flat Bar Square Bar Hexagon Bar	≤ 6.4mm Cold-worked	690	550	5	...	...
	6.4 ~ 12.7mm Cold-worked	655	480	7	...	...
	Hot-worked	585	240	20	...	...
Wire	≤ 0.81mm Annealed	552 ~ 793	...	...	...	...
	≥ 0.81mm Annealed	552 ~ 724	...	...	...	...

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HR
Wire	Cold-worked	827	...	...	...	...
	≤ 1.45mm	1276	...	...	...	...
	1.45 ~ 2.90mm	1207	...	...	...	...
	2.90 ~ 5.82mm	1172	...	...	...	...
	5.82 ~ 8.36mm	1130	...	...	...	...
	8.36 ~ 9.53mm	1103	...	...	...	...
	9.53 ~ 12.7mm	1069	...	...	...	...
	12.7 ~ 14.3mm	965	...	...	...	...
Sheet & Plate	Annealed	550	240	30	...	...
	Annealed	550	240	30	...	...
	Skin-hard	...	...	...	...	B85 ~ B88
	Quarter-hard	...	...	...	...	B88 ~ B94
	Half-hard	...	...	...	...	B93 ~ B98
	Three-quarter-hard	...	...	...	...	B97 ~ C25
	Hard	860	620	2	...	...
	Spring	...	...	...	...	≥ C30

• Physical Properties •

Density		Melting Range		Curie Temperature	
lb/in ³	g/cm ³	°F	°C	°F	°C
0.306	8.47	2470 ~ 2575	1354 ~ 1413	-192	-124

• Main Standards •

Rod, Bar, Wire & Forging Stock	Plate, Sheet & Strip	Pipe & Tube	Fitting	Welding Products
ASTM B166 ASME SB 166 ASTM B564 ASME SB 564 SAE AMS 5665 SAE AMS 5687	ASTM B168 ASME SB 168 ASTM B906 ASME SB 906 SAE AMS 5540	ASTM B167/ASME SB 167 ASTM B163/ASME SB 163 ASTM B516/ASME SB 516 ASTM B517/ASME SB 517 ASTM B751/ASME SB 751 ASTM B775/ASME SB 775 ASTM B829/ASME SB 829 SAE AMS 5580	ASTM B366 ASME SB 366	AWS5.14/ ERNiCr-3