

Inconel 693

UNS N06693

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Nickel

Chromium

Iron

<https://www.arialloy.com/inconel-693/>

Chemical Composition

Ni%	Cr%	Nb%	Fe%	Mn%	Al%
Balance	27.0 ~ 31.0	0.5 ~ 2.5	2.5 ~ 6.0	≤ 1.0	2.5 ~ 4.0
C%	Cu%	Si%	S%	Ti%	
≤ 0.15	≤ 0.5	≤ 0.5	≤ 0.01	≤ 1.0	

Mechanical Properties

Product	T.S.	Y.S.	EL	RA	Hardness
	MPa, min	MPa, min	%, min	%, min	HRB, max
Pipe & Tube	690	345	30	...	...
Bar & Rod	690	345	30	...	...
Plate, Sheet & Strip	690	345	30	...	...

Physical Properties

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.280	7.77	2403 ~ 2493	1317 ~ 1367

Main Standards

Rod & Bar	Plate, Sheet & Strip	Pipe & Tube	Fitting	Welding Products
ASTM B166 ASME SB 166	ASTM B168 ASME SB 168 ASTM B906 ASME SB 906	ASTM B167/ASME SB 167 ASTM B829/ASME SB 829 ASTM B516/ASME SB 516 ASTM B751/ASME SB 751	ASTM B366 ASME SB 366	AWS A5.14/ ERNiCrFeAl-1