

Hastelloy G-3

UNS N06985

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Nickel

Chromium

Iron

Molybdenum

Copper

www.arialloy.com/hastelloy-g3/

Chemical Composition

Ni%	Cr%	Fe%	Mo%	Cu%	Mn%	Co%
Balance	21.0 ~ 23.5	18.0 ~ 21.0	6.0 ~ 8.0	1.5 ~ 2.5	≤ 1.0	≤ 5.0
C%	W%	Si%	P%	S%	Nb% + Ta%	
≤ 0.015	≤ 1.5	≤ 1.0	≤ 0.040	≤ 0.030	≤ 0.50	

Mechanical Properties

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HRB, max
Seamless Pipe & Tube	All	621	241	40	...	...
Welded Pipe & Tube	All	621	241	45	...	...
Bar & Rod	7.9 ~ 19.05mm	621	241	45	...	...
	19.05 ~ 88.9mm	586	207	35	...	...
Plate	4.76 ~ 19.05mm	621	241	45	...	100
	19.05 ~ 63.5mm	586	207	35	...	100
Sheet & Strip	≥ 0.51mm	621	241	45	...	100

Physical Properties

Density	
lb/in ³	g/cm ³
0.294	8.14

Main Standards

Billet, Rod & Bar	Plate, Sheet & Strip	Pipe & Tube	Fittings	Welding Products
ASTM B581 ASME SB 581	ASTM B582 ASME SB 582	ASTM B622/ASME SB 622 ASTM B619/ASME SB 619 ASTM B626/ASME SB 626	ASTM B366 ASME SB 366	AWS A5.14/ ERNiCrMo-9 AWS A5.11/ ENiCrMo-9