

UNS N06022

Hastelloy

C-22

W.Nr. 2.4602

Nickel

Chromium

Molybdenum

www.arialloy.com/hastelloy-c22/

Chemical Composition

Mo%	Cr%	Fe%	W%	Co%	C%
12.5 ~ 14.5	20.0 ~ 22.5	2.0 ~ 6.0	2.5 ~ 3.5	≤ 2.5	≤ 0.015
Si%	Mn%	V%	P%	S%	Ni%
≤ 0.08	≤ 0.50	≤ 0.35	≤ 0.02	≤ 0.02	Balance

Mechanical Properties

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HRB, max
Pipe & Tube	All	690	310	45	...	...
Bar & Rod	All	690	310	45	...	...
Sheet, Plate & Strip	All	690	310	45	...	100

Physical Properties

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.314	8.69	2475 ~ 2550	1357 ~ 1399

Main Standards

Billet, Rod & Bar	Plate, Sheet & Strip	Pipe & Tube	Fittings	Forgings	Welding Products
ASTM B574 ASME SB 574 ASTM B472 ASME SB 472	ASTM B575 ASME SB 575	ASTM B622/ASME SB 622 ASTM B619/ASME SB 619 ASTM B626/ASME SB 626	ASTM B366 ASME SB 366 ASTM B462 ASME SB 462	ASTM B564 ASME SB 564 ASTM B462 ASME SB 462	AWS A5.14/ ERNiCrMo-10 AWS A5.11/ ENiCrMo-10