

Hastelloy B-3

UNS N10675

W.Nr. 2.4600

Nickel

Molybdenum

www.arialloy.com/hastelloy-b3/

• Chemical Composition •

Ni%	Mo%	Fe%	Cr%	C%	Si%	Co%	Mn%	P%	S%
≥ 65.0	27.0 ~ 32.0	1.0 ~ 3.0	1.0 ~ 3.0	≤ 0.01	≤ 0.10	≤ 3.0	≤ 3.0	≤ 0.030	≤ 0.010
V%	Al%	Nb%	Cu%	Ta%	Ti%	W%	Zr%	Ni + Mo%	
≤ 0.20	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.20	≤ 0.20	≤ 3.0	≤ 0.10	94.0 ~ 98.0	

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HRB, max
Pipe & Tube	All	760	350	40	...	...
Bar & Rod	All	760	350	40	...	...
Sheet, Plate & Strip	All	760	350	40	...	100

• Physical Properties •

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.333	9.22	2500 ~ 2585	1370 ~ 1418

• Main Standards •

Billet, Rod & Bar	Plate, Sheet & Strip	Pipe & Tube	Fittings	Forgings	Welding Products
ASTM B335 ASME SB 335	ASTM B333 ASME SB 333	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/ ERNiMo-10 AWS A5.11/ ENiMo-10