

Inconel 617

UNS N06617

W.Nr. 2.4663a

Nickel

Chromium

Cobalt

Molybdenum

<https://www.arialloy.com/inconel-617/>

• Chemical Composition •

Ni%	Cr%	Co%	Mo%	Fe%	Mn%	Al%
≥ 44.5	20.0 ~ 24.0	10.0 ~ 15.0	8.0 ~ 10.0	≤ 3.0	≤ 1.0	0.8 ~ 1.5
C%	Cu%	Si%	S%	Ti%	B%	
0.05 ~ 0.15	≤ 0.5	≤ 1.0	≤ 0.015	≤ 0.6	≤ 0.006	

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HR
Pipe & Tube	Annealed	655	240	30	...	...
Bar, Rod & Wire	Annealed	655	240	35	...	...
Plate	Annealed	655	240	35	...	...
Sheet	Annealed	655	240	25	...	...
Strip	Annealed	690	276	30	...	...

• Physical Properties •

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.302	8.36	2430 ~ 2510	1332 ~ 1380

• 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 5887	ASTM B168 ASME SB 168 SAE AMS 5888 SAE AMS 5889	ASTM B546 ASME SB 546	ASTM B366 ASME SB 366	AWS A5.14/ ERNiCrCoMo-1 AWS A5.11/ ENiCrCoMo-1