

Inconel 686

UNS N06686

W.Nr. 2.4606

Nickel

Chromium

Molybdenum

Tungsten

<https://www.arialloy.com/inconel-686/>

• Chemical Composition •

Mo%	Cr%	Fe%	W%	C%	Si%
15.0 ~ 17.0	19.0 ~ 23.0	≤ 5.0	3.0 ~ 4.4	≤ 0.010	≤ 0.08
Mn%	P%	S%	Ti%	Ni%	
≤ 0.75	≤ 0.04	≤ 0.02	0.02 ~ 0.25	Balance	

• Mechanical Properties •

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

• Physical Properties •

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.315	8.73	2440 ~ 2516	1338 ~ 1380

• Main Standards •

Rod, Bar, Wire & Forging Stock	Plate, Sheet & Strip	Pipe & Tube	Fitting	Welding Products
ASTM B564 ASME SB 564 ASTM B574 ASME SB 574	ASTM B575 ASME SB 575 ASTM B906 ASME SB 906	ASTM B163/ASME SB 163 ASTM B619/ASME SB 619 ASTM B622/ASME SB 622 ASTM B626/ASME SB 626 ASTM B751/ASME SB 751 ASTM B775/ASME SB 775 ASTM B829/ASME SB 829	ASTM B462 ASME SB 462 ASTM B366 ASME SB 366	AWS A5.14/ ERNiCrMo-14 AWS A5.11/ ENiCrMo-14