

Inconel 725

UNS N07725

UNS N07725

Nickel

Chromium

Molybdenum

Niobium

<https://www.arialloy.com/inconel-725/>

• Chemical Composition •

C%	Mn%	P%	S%	Si%	Cr%
≤ 0.03	≤ 0.35	≤ 0.015	≤ 0.010	≤ 0.20	19.00 ~ 22.50
Ni%	Mo%	Nb%	Ti%	Al%	Fe%
55.00 ~ 59.00	7.00 ~ 9.50	2.75 ~ 4.00	1.00 ~ 1.70	≤ 0.35	Balance

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HB
Bar, Rod & Wire	Solution	758	310	30	40	...
	Aged	1137	827	20	35	...

• Physical Properties •

Density		Melting Range		Poisson's Ratio
lb/in ³	g/cm ³	°F	°C	at 70 °F
0.300	8.31	2320 ~ 2449	1271 ~ 1343	0.31

• Main Standards •

Rod, Bar & Wire	Welding Products
ASTM B805 ASME SB 805	AWS A5.14/ERNiCrMo-15