

Inconel 603XL

Nickel

Chromium

<https://www.arialloy.com/inconel-603xl/>

• Chemical Composition •

Ni%	Cr%	Mo%	Ti%	Al%
Balance	15.0 ~ 23.0	≤ 4.00	≤ 0.50	≤ 0.50
C%	Mn%	Si%	Rare Earths%	
≤ 0.30	≤ 0.30	≤ 2.00	≤ 0.10	

• Thermal Properties •

Temperature, °C	Young's Modulus, GPa	Shear Modulus, GPa	Poisson's Ratio
22	218.6	81.9	0.33
100	215.3	80.7	0.33
200	210.2	78.7	0.34
300	204.4	76.3	0.34
400	198.2	73.7	0.34
500	191.5	71	0.35
600	184.4	68.1	0.35
700	176.3	64.9	0.36
800	166.8	61.4	0.36
900	155.1	57.2	0.36
1000	137.9	–	–
1100	115.2	–	–

• Physical Properties •

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.308	8.54	2516 ~ 2552	1380 ~ 1400