

INCONEL 718

APPLICATIONS: Turbine engine components, fuel and exhaust systems, chemical process equipment, oil well, petroleum and natural gas industry, fasteners and instrumentation parts.

CHEMICAL COMPOSITION: C (0.08 max.), Si (0.35 max.), Mn (0.35 max.), P (0.015 max.), S (0.015 max.), Cr (17.00-21.00), Mo (3.3 max.), Cu (0.30 max.), Fe (balance), Nb (5.5 max.), Al (0.3 max.), Ti (1.15 max.), Ni (50.00-55.00)

DENSITY: 99.9%

	AMS 5596,5662,5336 (Min.Req.)	SLM (As built)	SLM (Annealed)	SLM (HIP)
<u>MECHANICAL PROPERTIES:</u>				
0.02% Yield (MPa)	1034	786	1100	931
Ultimate Tensile (MPa)	1241	1069	1250	1275
Elongation (%)	6 min.	21	15	15
Hardness (HRC)	36	30	42	43