

HAYNES[®] 718 alloy

Tensile Properties

Tensile Data, Plate

Test Temperature		Ultimate Tensile Strength		0.2% Yield Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	200.5	1382	167.8	1157	20.6
800	427	173.1	1193	149.0	1027	22.6
1000	538	170.2	1173	145.9	1006	21.8
1200	649	162.5	1120	139.9	965	25.1
1400	760	117.3	809	104.9	723	12.1
1600	871	42.2	291	34.3	236	68.0
1800	982	14.1	97	9.6	66	129.9

Mill Annealed + 1325°F/8h/Furnace Cool to 1150°F/8h/Air Cool

Total time: 18 hours

RT= Room Temperature

Tensile Data, Sheet

Test Temperature		Ultimate Tensile Strength		0.2% Yield Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	203.6	1404	174.7	1205	18.4
800	427	176.2	1215	155.4	1071	21.3
1000	538	172.3	1188	150.2	1036	20.7
1200	649	164.1	1131	144.3	995	16.3
1400	760	114.8	792	103.8	716	6.9
1600	871	39.9	275	34.0	234	81.8
1800	982	13.7	94	9.7	67	175.6

Mill Annealed + 1325°F/8h/Furnace Cool to 1150°F/8h/Air Cool

Total time: 18 hours