

HAYNES[®] 617 alloy

Creep and Stress-Rupture Strength

Solution annealed Sheet

Temperature		Creep	Approximate Initial Stress to Produce Specified Creep in					
			10 Hours		100 Hours		1,000 Hours	
°F	°C	%	ksi	MPa	ksi	MPa	ksi	MPa
1400	760	0.5	18.7	129	14.5	100	11	76
		1	20.5	141	15.5	107	12	83
		R	33*	228*	26	179	20	138
1500	816	0.5	13.2*	91*	10.2	70	7.7	53
		1	14.0*	97*	10.8	74	8.5	59
		R	23.5	162	17.0	117	12.2	84
1600	871	0.5	9.5	66	7.3	50	5.0*	34*
		1	10.0	69	7.7	53	5.3*	37*
		R	16.5	114	11.4	79	7.3	50
1700	927	0.5	6.5	45	4.3	30	2.9*	20*
		1	7.4	51	4.8	33	3.2*	22*
		R	11.7	81	7.4	51	4.5	31
1800	982	0.5	-	-	2.9	20	1.7	12
		1	-	-	3.3	23	1.9	13
		R	-	-	5.2	36	2.3	16

*Significant extrapolation