



## GH747 Super Alloy Data

### Chemical Composition (wt%)

C ≤0.10	Cr 15.0~17.0	Al 3.5~4.5	Ni 43~47
Ce≤0.03	Y≤0.02	Fe: Remainder	

### Tensile Property

T (°C)	σ <sub>b</sub> , (MPa)	σ <sub>0.2</sub> , (MPa)	δ <sub>5</sub> , (%)	Ψ, (%)
20	600	300	50	55
800	150	100	33	30
900	70	60	35	35
1000	50	30	40	40
1100	30	20	70	55
1200	20		90	75

### Stress Rupture Limit

T, (°C)	σ <sub>100</sub> , (MPa)	σ <sub>1000</sub> , (MPa)
800		75
1000	20	
1100	9	6
1150	6	4
1200	5	2.5

### Pressure vs. Time Limits

Temperature (°C)	Max pressure (Bar)
800	140
900	80
1000	40
1100	2.5
Note 1: Max heating temperature 1100°C.	