6Mo Alloy
UNS S31254

Alloy Composition		
	6Mo Alloy	
Element	**Min.**	**Max.**
C	-	0.020
Mn	-	1.00
Si	-	0.80
Cr	19.5	20.5
Ni	17.5	18.5
Mo	6.0	6.5
N	0.18	0.22
Cu	0.50	1.00
P	-	0.030
S	-	0.010

SEAMLESS TUBE

Our 6Mo alloy (also known as 254 SMO) seamless tube is made to ASTM A213, and A269. Seamless 6Mo tube is solution annealed at 2100°F minimum followed by a rapid quench in either air or water.

Our stringent quality policies and inspection practices ensure that all seamless tube purchased from T2 Alloys Limited will be of good quality and delivered to the requirements within the aforementioned specifications.

For maximum working pressure rating of specific sizes, please contact our offices to speak to one of our staff.

Mechanical Properties				
	UTS	**0.2% Yield**	**% Elongation**	**Hardness (HRB)**
6Mo Alloy	98 ksi min.	45 ksi min.	35% min.	96 max.

Physical Properties		
		6Mo Alloy
Density @ Room Temperature (lb/in.^{3})		0.29
Specific Heat, @68°F (Btu/lb · °F)		0.11
Electrical Resistivity (μ Ω · in)		35.2
Coefficient of Thermal Expansion (μ in./in. · °F)	**86°F to 212°F**	8.5
	86°F to 392°F	8.7
	86°F to 572°F	8.9
Thermal Conductivity (Btu /ft · h · °F)	**@ 212°F**	7.11
	@ 572°F	9.5