



INCOLOY® Alloy 825 UNS N08825

Alloy Composition		
Element	Alloy 825	
	Min.	Max
Fe ^A	22.0	-
Ni	38.0	46.0
Cu	1.5	3.5
Cr	19.5	23.5
Mo	2.5	3.5
Mn	-	1.0
C	-	0.05
Si	-	0.5
S	-	0.03
Al	-	0.2
Ti	0.6	1.2

A – Determined arithmetically by difference.

SEAMLESS TUBE

Our alloy 825 seamless tube is made to ASTM B163, and B423. Seamless alloy 825 tube is supplied in the annealed condition.

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
Alloy 825	85 ksi min.	35 ksi min.	30 % min.

Physical Properties		
	Alloy 825	
Density @ Room Temperature (lb/in. ³)	0.294	
Specific Heat, (Btu/lb · °F)	0.105	
Electrical Resistivity (Ω · circ mil/ft) at 78°F	678	
Curie Temperature, °F	<-196	
Magnetic Permeability at 200 oersted	1.005	
Coefficient of Thermal Expansion (μ in./in. · °F)	@ 200°F	7.8
	@ 400°F	8.3
	@ 600°F	8.5
Thermal Conductivity (Btu-in /ft ² · h · °F)	@ 200°F	85.0
	@ 400°F	97.5
	@ 600°F	109.6

Limitation of Liability

The information contained in this datasheet is not an exhaustive statement of all relevant information. It is a general guide for customers to the products and services available from T2 Alloys Limited and no representation is made or warranty given in relation to this document or the products or processes it describes.

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