

Material properties

Material	316 (USA / AISI)
Group	Stainless and heat resisting steels
Subgroup	SAE AMS 5573
Comment	Austenitic Stainless Steel
Application	Corrosion and heat resistant steel in the form of seamless tubing

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
< 4.78 mm, Seamless Tube - Solutionized	-	793	-
4.78-12.7 mm, Seaml. Tube - Solutionized	-	758	-
>12.7 mm, Seaml. Tube - Solutionized	-	689	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
< 4.78 mm, Seamless Tube - Solutionized	35.0	-	-
4.78-12.7 mm, Seaml. Tube - Solutionized	37.0	-	-
>12.7 mm, Seaml. Tube - Solutionized	32.0	-	-

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.0800	-
Si	-	1.0000	-
Mn	1.2500	2.0000	-
P	-	0.0400	-
S	-	0.0300	-
Cr	16.000	18.000	-
Mo	2.0000	3.0000	-
Ni	10.000	14.000	-
Cu	-	0.7500	-