

Material properties

Material	321 (USA / AISI)
Group	Stainless and heat resisting steels
Subgroup	SAE AMS 5896
Comment	Austenitic Stainless Steel

Application Corrosion and heat resistant steel in the form of two types of thin-wall, close tolerance aircraft hydraulic tubing. This tubing has been used typically in high-pressure hydraulic or pneumatic systems assembled with brazed joints, but usage is not limited to such applications.

Yield Stress[MPa]			
Dimension	Min	Max	Approx
Tube - Cold Drawn	517	758	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
Tube - Cold Drawn	724	965	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
Tube - Cold Drawn	20.0	-	-

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.0800	-
Si	-	1.0000	-
Mn	-	2.0000	-
P	-	0.0400	-
S	-	0.0300	-
Cr	17.000	20.000	-
Mo	-	0.7500	-
Ni	9.0000	12.000	-
Ti	-	-	-
Cu	-	0.7500	-
N	-	0.1000	-