

# Material: BS 10216-5 EN 1.4306

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 10216-5 Seamless Steel Tubes for Pressure Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	10.000 - 12.000		
Nitrogen	N %	0.110 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      460 - 680 Yield Strength in Mpa      180 min. Elongation in %      35 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 min. @ -196°C	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
304L	AISI	USA	Bar, Wire, Strip, Slit, Plate, Sheet and Forging
1.4306	DIN	Germany	Cold Rolled, Strips, Slit Coils and Sheets
1.4307	EN	European Union	Rod, Bars, Wire and Forging
304 S 11	BS	British	Bright Bars, Hot Rolled and Cold Rolled Coil
SUS 304L	JIS	Japan	Hot Rolled Equal Leg Angles
04CH18N10	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
ASTM A 351 CF3	ASTM	USA	Casting

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