

# Material: ASME SA-351 Grade CK20

## Standard Specification for Austenitic Stainless and Austenitic Ferritic Steel Rolled Tubes for Pressure Service

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASME SA-351 Grade CK20 Austenitic Stainless and Austenitic Ferritic Steel Rolled Tubes for Pressure Service

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

**Grade Belongs to the Industry:** Rolled Tubes for Pressure Service

Chemical Composition		
Carbon	C %	0.040 - 0.200
Silicon	Si %	1.750 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	23.000 - 27.000
Nickel	Ni %	19.000 - 22.000
Molybdenum	Mo %	0.500 Max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	195 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4843	DIN	Germany	Round and Flat Wire
SCS 18	JIS	Japan	Centrifugal Cast, Steel, Pipes.
CH25N20	GOST	Russia	Precision Alloys
H23N18	PN	Poland	Heat Resisting Steels
T25 NiCr 250	STAS	Romania	Casting
A743 CK20	ASTM	USA	Casting
A351 CH20	ASTM	USA	Casting

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