

Material: ASTM A 213 N08904

Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 213 N08904 Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

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

Grade Belongs to the Industry: Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	19.000 - 23.000		
Sulphur	S %	0.035 max.		
Molybdenum	Mo %	4.000 - 5.000		
Phosphorus	P %	0.040 max.		
Copper	Cu %	1.000 - 2.000		
Nitrogen	N %	0.100 max.		
Nickel	Ni %	23.000 - 28.000		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	490 min.
-	-	-	Yield Strength in Mpa	215 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	90 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 649 N08904	ASTM	USA	Bar and Wire
A 182 F 904L	ASTM	USA	Pipe Flanges, Forged Fittings and Valves
A 249 N08904	ASTM	USA	Tube
A 269 N08904	ASTM	USA	Tube
A 312 N08904	ASTM	USA	Pipe
A 511 N08904	ASTM	USA	Bar
A 965 N08904	ASTM	USA	Forging

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