

Material: ASTM A213 UNS S32050

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

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A213 UNS S32050 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 %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	20.000 - 23.000		
Molybdenum	Mo %	6.000 - 6.800		
Nitrogen	N %	0.210 - 0.320	Mechanical Properties	
Copper	Cu %	0.400 max.	Tensile Strength in Mpa	675 min.
Iron	Fe %	Balance	Yield Strength in Mpa	330 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	256 max.
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A240 UNS S32050	ASTM	USA	Steel, Plate, Sheet and Strip	
A240 S32050	ASTM	USA	Plate, Sheet and Strip	
A 959 S32050	ASTM	USA	Plate, Sheet and Strip	
A358 S32050	ASTM	USA	Pipes	
A249 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges	
S32050	UNS	USA	Plate, Sheet and Strip	
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