

Material: EN X 1 NiCrMoCu 25 20 5

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

Group: Ferrous Stainless Steel Alloys

Sub Group: EN X 1 NiCrMoCu 25 20 5 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry: Forging

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	19.000 - 21.000
Molybdenum	Mo %	4.000 - 5.000
Nickel	Ni %	24.000 - 26.000
Copper	Cu %	1.200 - 2.000
Nitrogen	N %	0.150 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	500 - 2100
Yield Strength in Mpa	220 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	230 max.
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS N08904	ASTM	USA	Steel, Plate, Sheet and Strip
SUS 890L	JIS	Japan	Steel, Plate, Sheet and Strip
TU Z 1 NCDU 25 20 04	AFNOR NF	France	Steel and Tube
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Plate, Sheet and Strip
X1NiCrMoCu25 20 5	DIN	Germany	Rolling and Forging
STS 890L	KS	Korea	Steel, Plate, Sheet and Strip
2CuMoCrNi 250	STAS	Romania	Steel

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