Material: KS STS 890L

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: *KS STS 890L 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: *Steel, Sheet, Plate and Strip*

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	19.000 - 23.000
Molybdenum	Mo %	4.000 - 5.000
Nickel	Ni %	23.000 - 28.00
Copper	Cu %	1.000 - 2.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	490 min.
Yield Strength in Mpa	215 min.
Elongation in %	35 min.
Reduction of Area in %	40 min.
Hardness in HB	187 max.
Impact in Joule	-

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	EN	European Union	Forging
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Plate, Sheet and Strip
X1NiCrMoCu25 20 5	DIN	Germany	Rolling and Forging
2CuMoCrNi 250	STAS	Romania	Steel