

## 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			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
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	Mechanical Properties	
Iron	Fe %	Balance	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

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