

### Stainless Steel - Dimensions

Products	Max Width (mm)	Thickness (mm)	
		Min	Max
<b>Hisar</b>			
Hot Rolled Coil	1280	2.5	12
Plates	1270	4	80
HRAP / Coil	1280	2.5	8
CRAP Coil	1000	0.5	3.15
	1250	0.5	3.15
Precision Strips	435	0.05	0.5
Razor Blade Steel	340	0.076	0.45

. In case the product is supplied in Mill Edge, the tolerance on width may go up +50 / -0 mm

. Other Sizes / Thicknesses can also be supplied by mutual agreement

### Stainless Steel - Finishes

Surface Finish	Definition	Applications
No.1	Hot rolled annealed, shot blasted and pickled.	Pipes, Tubing , chemical tank, general fabrication
No.2	Dull Cold rolled annealed and pickled.	Deep drawn utensils, heat exchanger, exhaust pipe
No. 2B	Cold rolled annealed and pickled and skin passed; given an appropriate luster by again cold rolling.	Food industry, kitchen utensils, medical equipment, construction material
BA	Bright annealed finish; processed with bright heat treatment after cold rolling.	Decorative usage, kitchen utensils, electric equipment, building construction
No. 3	Cold rolled annealed and pickled and polished with 100 to 120 grit.	Kitchen utensils, building construction, medical equipment
No. 4	Cold rolled annealed and pickled and polished with 150 to 180 grit.	Kitchen utensils, building construction, medical equipment
Scotch Brite	Very fine hairline finish generated by polishing with rolls made out of scotch brite material.	Architectural purposes, railway cabins, elevator interiors, paneling, Kitchen appliances

. Other Sizes / Finishes can also be supplied by mutual agreement



CHEMICAL COMPOSITION											MECHANICAL PROPERTIES				
JSHL Designation / Grade	%C (Max)	%Mn (Max)	%P (Max)	%S (Max)	%Si (Max)	%Cr	%Ni	%Mo	N PRM (Max)	% OTHERS	Tensile Strength Mpa(min)	Yield Strength Mpa(min)	%Elongation (min)	Hardness Rockwell B (max)	
Austenitic Cr-Mn*	J-201#	0.15	5.5-7.5	0.060	0.030	1.00	16.00-18.00	3.50-5.50	-	2500		655	310	40	100
	J-201 L	0.030	5.5-7.5	0.045	0.030	0.75	16.00-18.00	3.50-5.50	-	2500		655	260	40	95
	J-201 LN	0.030	6.4-7.5	0.045	0.015	0.75	16.00-17.50	4.00-5.00	-	1000-2500	Cu = 1.0 Max	655	310	45	100
	J-202	0.15	7.5-10.0	0.060	0.030	1.00	17.00-19.00	4.00-6.00	-	2500		620	260	40	100
	J-204 Cu	0.10	6.5-9.0	0.060	0.010	0.75	16.00-17.50	1.50-3.50	-	1000-2500	Cu = 2.0-4.0	620	310	40	100
	JSLAUS (J1)	0.08	6.0-8.0	0.070	0.010	0.75	16.00-18.00	4.00-6.00	-	1000	Cu = 1.5-2.0	550	205	40	95
	J-4	0.10	8.50-10.0	0.080	0.010	0.75	15.00-16.00	1.00-2.00	-	2000	Cu = 1.5-2.0	650	325	40	100
	JSL U DD	0.15	9.7-10.7	0.1	0.030	0.75	15.00-16.00	0.45-0.60	-	-	Cu - 1.9-2.2 / N=0.2	700	350	40	100
	JSL U SD	0.15	9.7-10.7	0.1	0.030	0.75	13.25-14.25	0.4-0.5	-	-	Cu = 1.25-1.75 / N=0.1-0.2	700	350	40	100
	JT	0.11	9.8-10.8	0.1	0.010	0.75	14.0-15.25	0.35	-	-	Cu = 0.60-1.00 / N=2000	700	350	40	100
Austenitic Cr-Ni	J-301	0.15	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00	-	1000		515	205	40	95
	J-301 L	0.030	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00	-	2000		550	220	45	100
	J-301 LN	0.030	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00	-	700-2000		550	240	45	100
	J-304	0.07	2.00	0.045	0.030	0.75	18.00-19.50	8.00-10.50	-	1000		515	205	40	92
	J-304 H	0.04-0.10	2.00	0.045	0.030	0.75	18.00-20.00	8.00-10.50	-	-		515	205	40	92
	J-304 L	0.030	2.00	0.045	0.030	0.75	18.00-19.50	8.00-12.00	-	1000		485	170	40	92
	J-304 LN	0.030	2.00	0.045	0.030	0.75	18.00-20.00	8.00-12.00	-	100-1600		515	205	40	95
	J-309	0.20	2.00	0.045	0.030	0.75	22.00-24.00	12.00-15.00	-	-		515	205	40	95
	J-309 S	0.08	2.00	0.045	0.030	0.75	22.00-24.00	12.00-15.00	-	-		515	205	40	95
	J-310	0.25	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00	-	-		515	205	40	95
	J-310 S	0.08	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00	-	-		515	205	40	95
	J-316	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.30-3.00	1000		515	205	40	95
	J-316 L	0.030	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	1000		485	170	40	95
	J-316 LN	0.030	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	1000-1600		515	205	40	95
	J-316 Ti	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	1000	Ti=5X(C+N) Min., 0.70 Max	515	205	40	95
	J-317	0.08	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00	3.00-4.00	1000		515	205	35	95
	J-317 L	0.030	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00	3.00-4.00	1000		515	205	40	95
	J-317 LN	0.030	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00	3.00-4.00	1000-2200		550	240	40	95
	J-31727	0.030	1.00	0.030	0.030	1.00	17.50-19.00	14.50-16.50	3.80-4.50	1500-2100	Cu=2.8-4.0	550	245	35	96
	J-321	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-12.00	-	1000	Ti=5X(C+N) Min., 0.70 Max, Nb= 10XC Min., 1.00 Max	515	205	40	95
J-347	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.30-13.00	-	-		515	205	40	92	
Martensitic	J-410	0.08-0.15	1.00	0.040	0.030	1.00	11.50-13.50	0.75 max	-	-		450	205	20	96
	J-415	0.05	0.50-1.00	0.030	0.030	0.60	11.50-14.00	3.50-5.50	0.50-1.00	-		795	620	15	32rc
	J-420	0.15 min	1.00	0.040	0.030	1.00	12.00-14.00	0.75 max	0.50 max	-		690	-	15	96
	J-431	0.20	1.00	0.040	0.030	1.00	15.00-17.00	1.25-2.50	-	-		-	-	-	29rc
	JBS	0.6-0.7	1.00	0.030	0.015	0.75	12.50-13.50	-	-	-		-	-	-	-
	J-405	0.08	1.00	0.040	0.030	1.00	11.50-14.50	0.60	-	-	Al = 0.10-0.30	415	170	20	88
Ferritic	J-409	0.030	1.00	0.040	0.020	1.00	10.50-11.70	0.50 max	-	-	Ti=6X(C+N) Min., 0.5 Max	380	170	20	88
	J-409L	0.030	1.00	0.040	0.030	1.00	10.50-11.70	0.50 max	-	300	Ti=6X(C+N) Min., 0.75 Max	380	170	20	88
	J-410S	0.08	1.00	0.040	0.030	1.00	11.50-13.50	0.60 max	-	-		415	205	22	89
	J-430	0.12	1.00	0.040	0.030	1.00	16.00-18.00	0.75 max	-	-		450	205	22	89
	J-430Ti	0.030	1.00	0.040	0.030	1.00	16.00-19.00	-	-	-	Ti = 0.10-1.00	360	175	22	90
	J-436	0.120	1.00	0.040	0.030	1.00	16.00-18.00	-	0.75-1.25	-	Nb = 5XC Min., 0.70 Max	450	240	22	89
	J-436L	0.025	1.00	0.040	0.030	1.00	16.00-19.00	-	0.75-1.25	250	%Nb or & Ti or %combination = 8X (C+4) Min., 0.80 Max	410	245	20	96
	J-439	0.030	1.00	0.040	0.030	1.00	17.00-19.00	0.50 max	-	300	Ti=0.20+4X (C+N) Min., 1.10 Max. Al=0.15 Max	415	205	22	89
	J-441	0.030	1.00	0.040	0.015	1.00	17.50-18.50	-	-	-	Nb=3X% C+0.3 1% Max., Ti = 0.1-0.6%	430	250	18	88
	Ferritic + Martensitic														
J-409M	0.030	0.8-1.5	0.030	0.030	1.00	10.80-12.50	1.50 max	-	300	Ti=0.75 Max	450	275	20	90	
Duplex (Austenitic + Ferritic)															
J-2205	0.030	2.00	0.030	0.020	1.00	22.00-23.00	4.50-6.50	3.0-3.50	1400-2000		655	450	25	31rc	
J-2304	0.030	2.50	0.040	0.030	1.00	21.50-24.50	3.00-5.50	0.05-0.60	500-2000	Cu = 0.05 Min. - 0.60 Max.	600	400	25	32rc	
J-31803	0.030	2.00	0.030	0.020	1.00	21.00-23.00	4.50-6.50	2.50-3.50	800-2000		620	450	25	31rc	

\*These grades can be supplied with 0.0005% max also.  
#This grade will be supplied with 0.08%C max for improved corrosion resistance.  
|| This grade can be supplied in Two versions of 0.08%C max or 0.1%C max.  
Specific Chemical and Mechanical properties can be supplied by mutual agreement.