



Inspired by possibilities

Enrich Udhyog Pvt. Ltd.

Manufacturer, Stockiest & Suppliers:
Stainless Steel Industrial Raw Material

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About us

ENRICH UDHYOG PVT LTD, is a **STAINLESS STEEL**. Trusted supplier based in New Delhi, directed by **Mr. SANJAY SHAH** who has a finest history of supplying quality products on time at a competitive price, SINCE 24 YEARS.

ENRICH UDHYOG PVT LTD is a renowned supplier of all types of **FERROUS & NON FERROUS MATERIALS**. Its product portfolio comprises of **SS Coil, sheets, Plates, Rods, Square, hexagonal, Pipes, fittings** and all type of industrial raw materials.

We have state-of-the-art products to meet the most demanding requirements of our customers. We are ready to serve, your requirements with our **PROMISES & EXCELLENCE**.

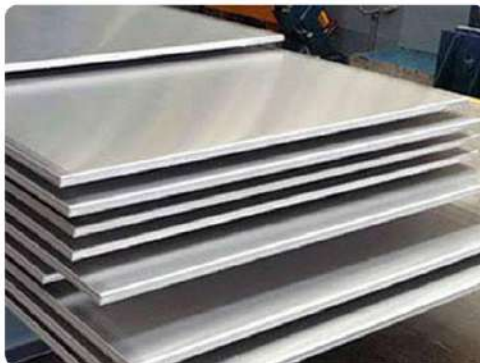
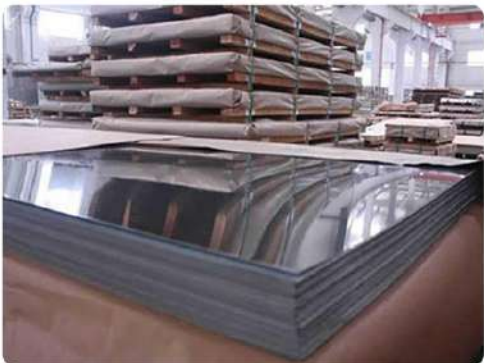
We in continuous improvisation and emphasize on improving quality and thus the system. In addition, we employ transparency and ethical business policy at every step of our business. Moreover, our quality products and services meet the requirements of various industries and help us to garner huge reputed clientele all across

We direct all our activities to cater the expectations of customers by providing them excellent quality products as per their gratifications. Moreover, we follow moral business policies and crystal pure transparency in all our transactions to keep healthy relations with the customers

S. S. Coil & Slittings



S. S. Sheet & Plate



S. S. Rod & Round



Products

S.S. Wire Rod & Wire



S.S. Square & Hex



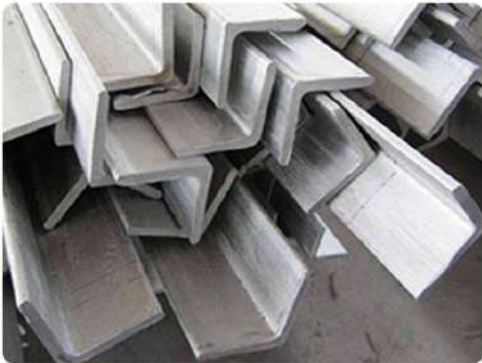
S. S. Pipes & Tubes



S. S. Flat & Patti



S. S. Angle & Channel



S. S. Circle & Profile Cutting



Products

S. S. Fittings & Valves



S. S. Color Sheets & Profile



Industries we serve

Indian Railway / Metro Rail



Sugar mills & cement plant



Defence & government projects

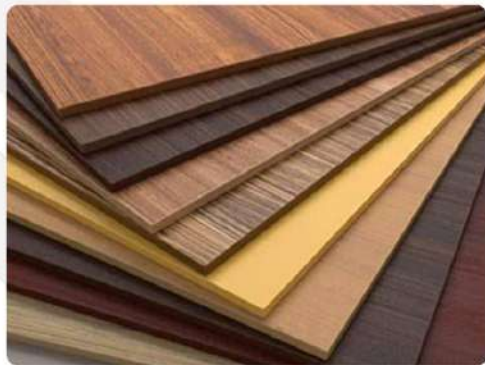


Industries we serve

Utensils & cutlery



Plywood / mica industries



Hotel & kitchen equipments



Industries we serve

Home appliances & kitchen accessories



Hardware & fasteners



Dairy & pharma



Industries we serve

Power plant & refineries



Architecture & construction



Surgical & hospital equipments



Industries we serve

Automotive & handpump



Chemical & dyeing



Chemical Composition

Grade	Std	Chemical Analysis																				Mechanical						
		%C		%Mn		%S		%P		%Si		%Ni		%Cr		%Cu		%Mo		N ppm		Others		HRB	YS	TS	%El	Bend
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max					
201	ASTM A 240		0.150	5.500	7.5		0.030		0.060		1.000	3.50	4.50	16.0	18.0						2500			100	310	655	40	
202	ASTM A 240		0.150	7.500	10.0		0.030		0.060		1.000	4.00	6.00	17.0	19.0						2500			100	260	620	40	
204Cu(16Cr-1.5Ni)	UNS20430		0.150	6.500	9.0		0.030		0.060		1.000	1.50	3.50	15.5	17.5	2.000	4.000			500	2500	B - 0.002		98	325	650	40	
J204 Cu	JSL		0.100	6.5	9.0		0.030		0.060		0.750	1.50	3.50	16.0	17.5	2.00	4.00			1000	2000			100	310	620	40	
301	ASTM A 240		0.150		2.00		0.030		0.045		1.00	6.0	8.00	16.0	18.0						1000			95	205	515	40	
301L	ASTM A 240		0.030		2.00		0.030		0.045		1.00	6.0	8.00	16.0	18.0						2000			100	220	550	45	
301M	SALEM	0.05	0.080	1.6	2.00		0.015		0.040	0.3	0.80	6.0	7.00	16.5	17.5					700	1000							
302			0.015		2.00		0.030		0.045		0.75	8.0	10.00	17.0	19.0						1000							
304	ASTM A 240		0.080		2.0		0.030		0.045		0.750	8.00	10.50	18.0	20.0						1000			92	205	515	40	
1.4301	EN 10088-2		0.070		2.0		0.015		0.045		1.000	8.00	10.50	17.5	19.5						1100				230	540-750	45	
304L	ASTM A 240		0.030		2.0		0.030		0.045		0.750	8.00	12.00	18.0	20.0						1000			92	170	485	40	
304LN	ASTM A 240		0.030		2.0		0.030		0.045		0.750	8.00	12.00	18.0	20.0					1000	1600			92	205	515	40	
304H	ASTM A 240	0.040	0.100		2.0		0.030		0.045		0.750	8.00	10.50	18.0	20.0									92	205	515	40	
309S	ASTM A 240		0.080		2.0		0.030		0.045		0.750	12.00	15.00	22.0	24.0									95	205	515	40	
309	ASTM A 240		0.200		2.0		0.030		0.045		0.750	12.00	15.00	22.0	24.0									95	205	515	40	
310S	ASTM A 240		0.080		2.0		0.030		0.045		1.500	19.00	22.00	24.0	26.0									95	205	515	40	
310	ASTM A 167		0.250		2.0		0.030		0.045		1.500	19.00	22.00	24.0	26.0									95	205	515	40	
316	ASTM A 240		0.080		2.0		0.030		0.045		0.750	10.00	14.00	16.0	18.0			2.00	3.00		1000			95	205	515	40	
316L	ASTM A 240		0.030		2.0		0.030		0.045		0.750	10.00	14.00	16.0	18.0			2.00	3.00		1000			95	170	485	40	
316 Ti	ASTM A 240		0.080		2.0		0.030		0.045		0.750	10.00	14.00	16.0	18.0			2.00	3.00		1000	Ti - 5(C+N)	Ti - 0.70	95	205	515	40	
316LN	ASTM A 240		0.030		2.0		0.030		0.045		0.750	10.00	14.00	16.0	18.0			2.00	3.00	1000	1600			95	205	515	40	
321	ASTM A 240		0.080		2.0		0.030		0.045		0.750	9.00	12.00	17.0	19.0						1000	Ti - 5(C+N)	Ti - 0.70	95	205	515	40	
317	ASTM A 240		0.080		2.0		0.030		0.045		0.750	11.00	15.00	18.0	20.0			3.00	4.00		1000			95	205	515	35	
317L	ASTM A 240		0.030		2.0		0.030		0.045		0.750	11.00	15.00	18.0	20.0			3.00	4.00		1000			95	205	515	40	
317LN	ASTM A 240		0.030		2.0		0.030		0.045		0.750	11.00	15.00	18.0	20.0			3.00	4.00	1000	2200			95	240	550	40	
347	ASTM A 240		0.080		2.0		0.030		0.045		0.750	9.00	13.00	17.0	19.0							Cb - 10xC	Cb - 1.00	92	205	515	40	
JSL AUS	JSL		0.080	6.0	8.0		0.010		0.060		0.750	4.00	6.00	16.0	18.0	1.50	2.00				1000			100	205	550	40	
JSL TUBE	JSL		0.100	9.0	10.0		0.010		0.100		0.750	0.25	0.35	14.5	16.0	1.50	2.00				2000			100	325	650	40	
J1B-M	JSL		0.080	11.0	12.0		0.010		0.080		0.750	2.00	3.50	15.0	16.0	2.00	2.50				1000							
J1B	JSL		0.080	7.0	8.0		0.010		0.070		0.700	4.00	4.20	14.5	15.5	1.50	2.00				1000			95	205	550	40	
J4	JSL		0.100	8.5	10.0		0.010		0.060		0.750	1.00	2.00	15.0	16.0	1.50	2.00				2000			100	325	650	40	
J5	JSL		0.120	8.75	10.0		0.030		0.100		0.750	0.80	1.00	14.75	15.75	1.60	2.00				2500							
J7	JSL	0.070	0.150	8.0	10.0		0.030		0.120		0.750	0.20	0.60	12.5	15.0	1.50	1.90				2500			100	350	700	35	
J15Cr	TP 09/2007		0.100	11.0	11.5		0.010		0.080		0.400		0.35	15.0	16.0	2.00	2.50			1000	2500			98	325	650	40	
X5CrNi1810 / 304	RLY C-K201		0.070		2.0		0.030		0.045		1.000	8.50	10.50	17.0	19.0										235 (Work Hdnd 350 min)	550 - 750 (Work Hdnd 700 min)	40 (Work Hdnd 25 min)	

Chemical Composition

X2CrNi18 / 301	RLY C-K201		0.080	2.0	0.030	0.045	1.000	6.00	8.00	16.0	18.0							350 (Work Hdnd 500 min)	600 - 900 (Work Hdnd 800 min)	40 (Work Hdnd 20 min)		
X6CrNiTi18 / 321	RLY C-K201		0.080	2.0	0.030	0.045	1.000	9.00	12.00	17.0	19.0					Ti= 5xC	0.800	245	540 - 740	40		
X5CrNiMo17 12 / 316	RLY C-K201		0.070	2.0	0.030	0.045	1.000	10.50	13.50	16.0	18.0			2.00	2.50			255	550 - 700	40		
405	ASTM A 240		0.080	1.0	0.030	0.040	1.000		0.60	11.5	14.5					Al-0.10	Al-0.30	88	170	415	20	
410S	ASTM A 240		0.080	1.0	0.030	0.040	1.000		0.60	11.5	13.5							89	205	415	22	
403	ASTM A479		0.150	1.0	0.030	0.040	0.500			11.5	13.0				300			95-105		75-95		
430	ASTM A 240		0.120	1.0	0.030	0.040	1.000		0.75	16.0	18.0						Ti or Nb = 1.0	89	205	450	22	
430Ti			0.030	1.0	0.030	0.040	1.000			16.0	19.0					Ti or Nb = 0.10	Ti or Nb = 1.0	90	175	360	22	
436	ASTM A 240		0.120	1.0	0.030	0.040	1.000			16.0	18.0			0.75	1.25		Cb=5XC	Cb=0.7	89	240	450	22
436LM	JIS G 4305		0.010	0.2	0.006	0.040	0.150			17.0	19.0			0.60	1.50	150	Ti=10(C+N)		170/85	205.8	392	25
439	ASTM A 240		0.030	1.0	0.030	0.040	1.000		0.50	17.0	19.0				300	Al-0.03 mx	Ti-0.2+4(C+N) to 1.1 mx	89	205	415	22	180
X2CrTi12 / 409	RLY C-K201		0.030	1.0	0.030	0.040	1.000			10.5	12.5							Ti-6(C) to 1.0 max		220	390 - 560	20
X2CrNi12 / 409 M	RLY C-K201		0.030	1.5	0.030	0.040	1.000	0.30	1.00	10.5	12.5				300					320	450 - 650	20
X2CrNi12 / 409 M	HW 18802		0.030	1.5	0.015	0.040	1.000	0.30	1.00	10.5	12.5				300				0- 280 90- 320		450-650	20
X6Cr17 / 430	RLY C-K201		0.080	1.0	0.030	0.040	1.000			16.0	18.0									270	450 - 600	20
436L	JIS G 4305		0.025	1.0	0.030	0.040	1.000			16.0	19.0			0.75	1.25	250	Ti, Nb, Zr = 8x(C+N)	Ti, Nb, Zr = 0.80	96	245	410	20
409	ASTM A 240		0.030	1.0	0.020	0.040	1.000		0.50	10.5	11.7				300	Ti - 6x(C+N)	Ti -0.75	88	170	380	20	
441	DIN 1.4509		0.030	1.0	0.015	0.040	1.000			17.5	18.5					Ti- 0.10, Nb-(9xC) +0.3	Ti-0.6, Nb-1.0		250	430 - 630	18	
409 M			0.030	0.8	1.5	0.030	0.030	1.000		1.50	10.8	12.5				300		Ti-0.75	90	275	450	20
409L	JIS G 4312		0.030	1.0	0.020	0.040	1.000		0.50	10.5	11.7					Ti - 6x C	Ti -0.75	88	170	380	20	
409RC			0.030	1.0	0.020	0.040	1.000		0.05	10.5	11.7				300	Ti - 6x(C+N)	Ti -0.75	84	170	280	30	
1.4003	DIN EN 10088-2		0.030	1.5	0.015	0.040	1.000	0.30	1.00	10.5	12.5				300					280	450 - 650	20
420	ASTM A176	0.150		1.0	0.030	0.040	1.000		0.75	12.0	14.0				0.50				96		690	15
420J1	JIS G 4304	0.160	0.250	1.0	0.030	0.040	1.000		0.60	12.0	14.0								97	225	520	18
420J2	JIS G 4304	0.260	0.400	1.0	0.030	0.040	1.000		0.60	12.0	14.0								99	225	540	18
X30Cr13	IS 6911	0.260	0.350	1.0	0.030	0.040	1.000		1.00	12.0	14.0		0.300		0.30	300			100	590	780	11
410	ASTM A 240	0.090	0.150	1.0	0.030	0.040	1.000		0.75	11.5	13.5								96	205	450	20
415	UNS		0.050	1.0	0.030	0.030	0.600	3.50	5.50	11.5	14.0				1.00				32	620	795	15

Weight formula

Formula for Calculating S. S. Weight

1. S. S. Pipe :

O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0248 = Wt. Per Mtr.

O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.00756 = Wt. Per Feet

2. S. S. Rod :

DIA (mm) X DIA (mm) X 0.00623 = Wt. Per Mtr.

DIA (mm) X DIA (mm) X 0.0019 = Wt. Per Feet

3. S. S. Square :

DIA (mm) X DIA (mm) X 0.00788 = Wt. Per Mtr.

DIA (mm) X DIA (mm) X 0.0024 = Wt. Per Feet

4. S. S. Hexagonal :

DIA (mm) X DIA (mm) X 0.00680 = Wt. Per Mtr.

DIA (mm) X DIA (mm) X 0.002072 = Wt. Per Feet

5. S. S. Flat :

Width (mm) X Thick (mm) X 0.00798 = Wt. Per Mtr.

Width (mm) X Thick (mm) X 0.00243 = Wt. Per Feet

6. Sheet & Plates :

Length (mtrs) X Width (mtrs) X Thick (mm) X 8.068 = Wt. Per PC.

Length (feet) X Width (feet) X Thick (mm) X 3/4 = Wt. Per PC

7. Circle Weight:

Dia (mm) X Dia (mm) X Thick (mm) ÷ 160 = Gms. Per PC Dia (mm) X

Dia (mm) X Thick (mm) X 0.0000063 = Wt. Per PC

8. Conversion of Mtrs to Feet:

Weight of 1 Mtrs ÷ 3.2808 = Weight Per Feet

Weight formula

STAINLESS STEEL PIPE DIMENSION AS PER ASTM & WEIGHT-KG. PER MTR. (ANSI B36.19)

Nominal Bore		Outside Diameter	Sch-5S		Sch-10S		Sch-40S		Sch-80S		Sch-160S		Sch-XXS	
mm	INCH	mm	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.77	1.27	3.75	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.87	1.68	3.91	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.2	1.65	1.65	2.77	2.70	3.56	3.38	4.85	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.3	1.65	1.91	2.77	3.11	3.68	4.05	5.08	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.91	5.44	5.54	7.48	8.74	11.1	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	5.16	8.63	7.01	11.4	9.53	14.9	14.2	20.39
80	3	88.9	2.11	4.51	3.05	6.45	5.49	11.30	7.62	15.2	11.1	21.3	15.24	27.65
100	4	114.3	2.11	5.84	3.05	8.36	6.02	16.07	8.56	22.3	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	6.55	21.8	9.53	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	7.11	28.3	10.97	42.7	18.2	67.56	21.95	79.22
200	8	219.1	2.77	14.79	3.76	19.96	8.18	42.6	12.7	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	9.27	60.5	12.7	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	9.52	73.88	12.7	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-



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