



Steamline Industries Limited

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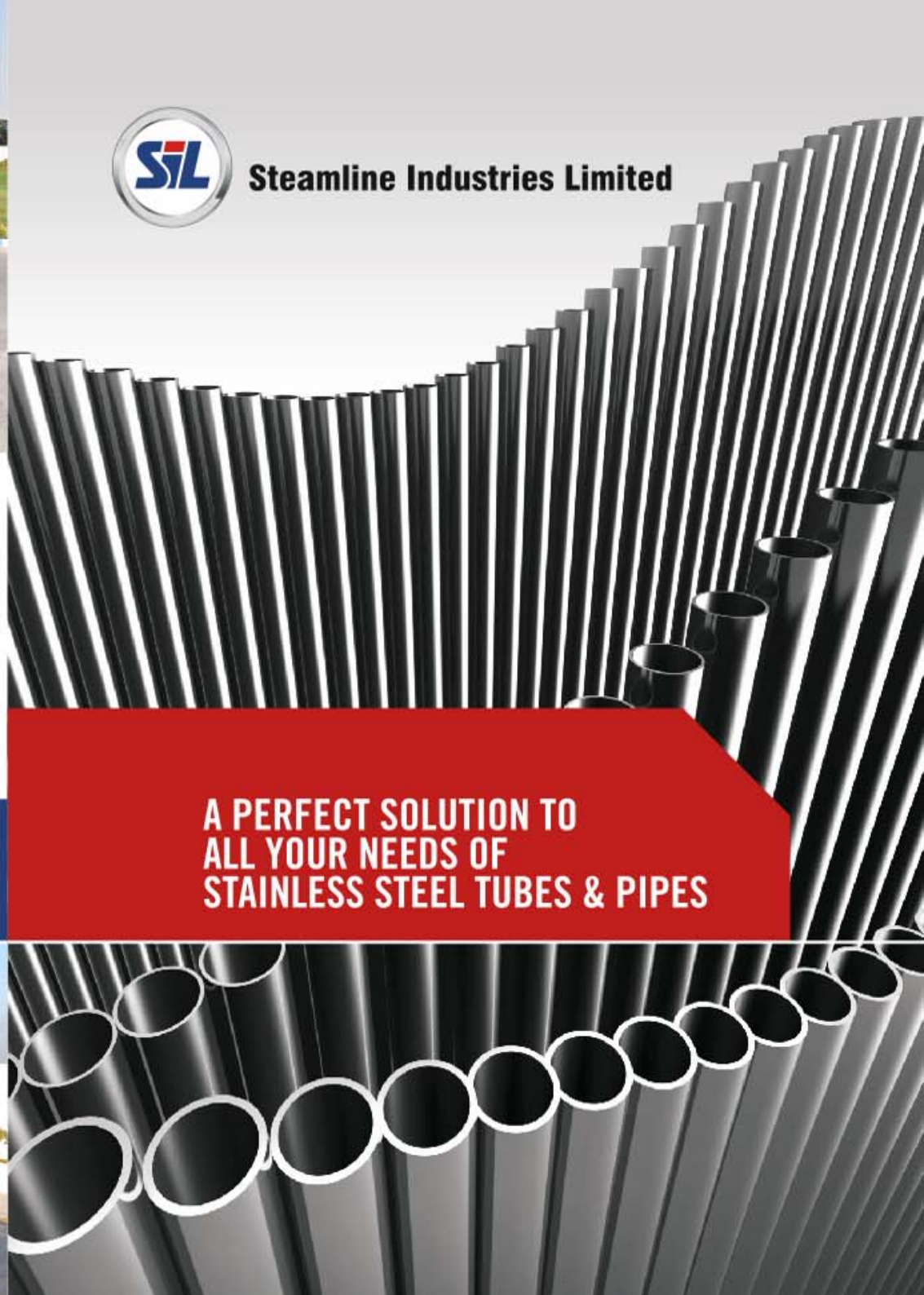
<http://pipe.steamlineind.com>

www.steamlineind.com



Steamline Industries Limited

**Manufacturer & Exporters of Austenitic,
Ferritic, Martensitic, Duplex & Super Duplex
Welded and Seamless Pipes, Tubes & U-tubes.**



**A PERFECT SOLUTION TO
ALL YOUR NEEDS OF
STAINLESS STEEL TUBES & PIPES**



PRODUCTS

Stainless Steel Seamless Pipes, Tubes & U-tubes
Stainless Steel Welded Pipes, Tubes & U-tubes

Size Range

Product	Size Range		
	OD (mm)	Thickness (mm)	Length (Meters)
S.S. Seamless Tubes	6.00 mm - 101.60 mm	0.70 mm - 3.50 mm	25 Meters
S.S. Seamless Pipes	13.72 mm - 273.05 mm	1.65 mm - 12.70 mm	12 Meters
S.S. Seamless U-Tubes	12.70 mm - 60.30 mm	0.90 mm - 3.50 mm	Radius 1.50D to 1500mm
S.S. Welded Tubes	6.00 mm - 76.20 mm	0.50 mm - 3.50 mm	25 Meters
S.S. Welded Pipes	17.15 mm - 60.33 mm	1.65 mm - 5.54 mm	12 Meters
	73.03 mm - 273.05 mm	2.11 mm - 9.56 mm	12 Meters
S.S. Welded U-Tubes	12.70 mm - 60.30 mm	0.90 mm - 3.50 mm	Radius 1.50D to 1500mm

Our Vision

To win the trust of our Customers by providing them the best quality material & services from our side. Always to co-operate & support our Customers in the best manner. Building up the Brand Value of our Organization to our customers.

Always develop the business with our customers for the long term.

Our Mission

- ▲ To Be A leading Manufacturer & Exporters for Stainless Steel Seamless & Welded Tubes, Pipes & U-Tubes.
- ▲ Different from other suppliers in way of Quality, Delivery, Services, Communication.
- ▲ To Supply premium quality products to our customers.
- ▲ Always improving our selves from Better To Best.
- ▲ Fostering Team Work, Act with Passion and pace.



HSE POLICY

Steamline Industries limited. is committed to meet global requirements by ensuring a clean Environment, Occupational Health and Safety (EOHS) at our premises, as a Visionary approach.

We are also committed to: prevent incidents, ill health, Pollution and hazards, by complying the necessary Regulatory & statutory requirements.

To meet the above, we are also committed to provide necessary resources, adequate infrastructure, and facilities on continual basis.

The EOHS performance shall be reviewed on regular basis for continual improvement at our work place, by participating interested parties and teams.

QUALITY CONTROL

The company adheres to stringent quality norms for all the processes. The materials used by SIL are of very high quality and compatible to the latest machinery and production process. The company's technical and commercial quality guidelines are set to high standards. A team supervises the quality assurance and control aspects along with the entire process system by identifying and associating with the quality circle. Quality Control tests are conducted regularly to maintain a uniform product quality.

APPLICATIONS

- ▲ Heat Exchangers/ Dust Catchers pressure vessels
- ▲ Dairy and food Industry
- ▲ Paper Industry
- ▲ Environment & Effluent Treatment
- ▲ Solvent Extractions
- ▲ Petro – Chemical and Refineries
- ▲ Fertilizer Plants
- ▲ Submersible Pumps
- ▲ Breweries & Distilleries
- ▲ Pharmaceuticals
- ▲ Sugar Mills
- ▲ Oil and Gas Industry
- ▲ Automobile Industry
- ▲ Power Plants
- ▲ Instrumentation
- ▲ Furniture Industry

Quality Policy

Steamline Industries Limited is in the field of manufacturing of Stainless Steel ERW / Seamless pipes & tubes, to meet the international standards, customer expectations and quality.

We are committed to follow a process approach, by encouraging interested parties, suppliers, employees of our organization to meet the customer expectations.

We shall regularly review our systems, technology, resources and results for maintaining a sustainability in our growth on continual basis.

Executive Director

Material Grades

Material	ASTM		Equivalent Standard		
	UNS	Grads (TP)	Din (EN)	Afnor (NF)	JIS
AUSTENITIC	S30400	304	1.4301	Z 6 CN 18.09	SUS 304
	S30403	304L	1.4306/1.4307	Z 2 CN 18.10	SUS 304L
	S31600	316	1.4401	Z 6 CND 17.11	SUS 316
	S31603	316L	1.4404	Z 2 CND 17.12	SUS 316L
	S31635	316Ti	1.4571	Z 2 CND 17.12	
	S32100	321	1.4541	Z 6 CNT 18.10	SUS 321
	S34700	347	1.455	Z 6 CNNb 18.10	SUS 347
	S30409	304H	1.4948	Z 6 CN 19.10	SUS 304H
	S31609	316H	1.4919	Z 10 CND 18.10	SUS 316H
	S32109	321H	1.4941	Z 10 CND 18.10	SUS 321H
FERRATIC / MARTENSITIC	S40500	405	1.4002	Z 6 CAL 13	SUS 405
	S41000	410	1.4002	Z 12 C 13	SUS 410
	S43000	430	1.4016	Z 10 C 17	SUS 430
DUPLEX	S31803	2205	1.4462	Z 2 CND 22.06	
	S32750	2507	1.4410	Z 5 CND 20.12	
	S32760		1.4501		
	S31500		1.4417		
	S32304		1.4362		

Specifications

Standard	Specification			Applicable to
ASTM/ASME	A / SA 213			Seamless ferritic and austenitic alloy steel boiler, super heater & heat exchanger Tubes
	A / SA 249			Welded austenitic steel boiler, super heater, heat exchanger & condenser tubes
	A / SA 268			Seamless and Welded ferritic and martensitic stainless steel tubing for general service
	A / SA 269			Seamless and Welded austenitic stainless steel tubing for general service
	A / SA 312			Seamless and Welded austenitic stainless steel pipes
	A / SA 358			Welded pipe for high temperature service
	A / SA 688			Welded feed water heater 'U' Tubes
GERMAN (EN)	EN 10216 - 5			Seamless Steel Tubes for Pressure Purpose.
	EN 10217 - 6			Welded Steel Tubes for Pressure Purpose.
NF	NF	A	49-117	Seamless ferritic & austenitic stainless steel tubes for general services
	NF	A	49-217	Seamless ferritic, austenitic & ferrite-austenitic stainless steel tubes for heat exchanger
JIS	JIS	G	3459	Seamless steel pipes
	JIS	G	3463	Stainless steel boiler and heat exchanger tubes



**TOTAL PRODUCTION CAPACITY
2200 MT / MONTH & 26400 MT / YEAR**

Stainless Steel Pipe Dimension

Nominal Pipe Size		Outside Diameter		Wall Thickness & Weight											
				Sch. 5S		Sch. 10S		Sch. 20S		Sch. 40S		Sch. 80S		Sch. 160S	
mm	Inch	mm	Inch	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.
6	1/8	10.3	0.405	1	0.23	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-
8	1/4	13.7	0.54	1.2	0.37	1.65	0.49	2	0.58	2.24	0.64	3.02	0.82	-	-
10	3/8	17.2	0.675	1.2	0.47	1.65	0.63	2	0.74	2.31	0.87	3.2	1.12	-	-
15	1/2	21.3	0.84	1.65	0.81	2.11	1.02	2.3	1.07	2.77	1.29	3.73	1.62	4.75	1.97
20	3/4	26.7	1.05	1.65	1.05	2.11	1.3	2.5	1.52	2.87	1.71	3.91	2.93	5.56	2.93
25	1	33.4	1.315	1.65	1.03	2.77	2.13	2.5	2	3.38	2.54	4.55	3.29	6.35	4.3
32	1 1/4	42.2	1.66	1.65	1.65	2.77	2.73	3	2.9	3.56	3.44	4.85	4.56	6.35	5.69
40	1 1/2	48.3	1.9	1.65	1.93	2.77	3.11	3	3.35	3.68	4.11	5.08	5.49	7.14	7.35
50	2	60.3	2.375	1.65	2.4	2.77	3.99	3.5	4.25	3.91	5.52	5.54	7.6	8.74	11.26
65	2 1/2	73.03	2.875	2.11	3.7	3.05	5.26	4	6.81	5.16	8.77	7.01	11.59	9.53	14.91
80	3	88.9	3.5	2.11	4.51	3.05	6.45	4	8.37	5.49	11.47	7.62	15.51	11.13	21.3
100	4	114.3	4.5	2.11	5.85	3.05	8.36	4.5	12.18	6.02	16.07	8.56	22.66	13.49	33.54
125	5	141.3	5.563	2.77	9.5	3.4	11.6	5	16.8	6.55	21.08	9.53	31	15.88	49.11
150	6	168.3	6.625	2.77	11.35	3.4	13.82	6.35	25.36	7.11	28.68	10.97	42.56	18.24	67.53
200	8	219.08	8.625	2.77	14.8	3.76	20	6.35	33.31	8.18	43.18	12.7	64.64	23.01	111.27
250	10	273.05	10.75	3.4	22.61	4.19	27.8	6.35	41.77	9.27	60.31	12.7	81.55	28.58	172.33
300	12	323.85	12.75	3.96	31.25	4.57	36	6.35	49.7	9.53	73.85	12.7	97.43	33.32	238.68
350	14	355.6	14	3.96	34.35	4.78	41.3	7.92	67.9	11.13	98.54	-	-	-	-
400	16	406.4	16	4.19	41.6	4.78	47.34	7.92	77.82	12.07	123.3	-	-	-	-
450	18	457.2	18	4.19	46.85	4.78	53.32	7.92	87.74	14.27	155.86	-	-	-	-
500	20	508	20	4.78	59.31	5.54	68.64	9.53	117.14	15.09	183.42	-	-	-	-
600	24	609.6	24	5.54	82.57	6.35	94.52	9.53	141.11	17.48	255.41	-	-	-	-

Stainless Steel Tube Dimension

Gauge		22	20	18	16	14	12	10
mm		0.711	0.914	1.219	1.626	2.032	2.642	3.251
Outside Diameter		Weight in Kg / Meter						
mm	Inch							
6.350	1/4"	-	-	0.124	0.157	0.192	-	-
7.950	5/16"	-	0.161	0.205	0.257	-	-	-
9.525	3/8"	-	0.197	0.253	0.321	0.381	-	-
12.700	1/2"	0.213	0.270	0.350	0.451	0.543	0.665	-
15.875	5/8"	0.270	0.342	0.447	0.580	0.704	0.875	-
19.050	3/4"	-	0.415	0.544	0.709	0.866	1.090	1.290
22.225	7/8"	0.383	0.488	0.641	0.838	1.030	1.300	1.550
25.400	1"	0.440	0.560	0.738	0.967	1.190	1.510	1.800
31.750	1 1/4"	0.553	0.706	0.931	1.230	1.510	2.930	2.320
38.100	1 1/2"	0.666	0.851	1.130	1.480	1.840	2.350	2.840
44.450	1 3/4"	0.779	0.969	1.320	1.740	2.160	2.770	3.350
50.800	2"	0.892	1.140	1.540	2.000	2.480	3.190	3.870
63.500	2 1/2"	-	-	1.900	2.520	3.130	4.030	4.910
76.2	3"	-	-	2.237	2.789	3.453	4.790	5.934
88.9	3 1/2"	-	-	2.616	3.560	4.413	5.617	6.964
101.6	4"	-	-	2.995	4.078	5.059	6.444	8.080

PACKING

- ▲ Seaworthy Wooden Box
- ▲ Seaworthy Crate Box
- ▲ Plastic Bundle Packing
- ▲ Plastic Bag / Sheet Packing
- ▲ Hessain Cloth



TRANSPORTATION

- ▲ LCL & FCL Cargo Shipment
- ▲ Flat Bed Container
- ▲ Open Top Container 20" & 40"



NPS DIMENSION TABLE AS PER ANSI/ASME B 36.10/36.19

Inch NB	mm NB	OD in mm	Sch5s		Sch10s		Sch40s		SchXs		Sch80s		Sch160		SchXXs	
			In mm	Kg / Meter	In mm	Kg / Meter	In mm	Kg / Meter	In mm	Kg / Meter	In mm	Kg / Meter	In mm	Kg / Meter	In mm	Kg / Meter
1/8	6	10.29	-	-	1.24	0.28	1.73	0.37	2.41	0.48	2.41	0.48	-	-	-	-
1/4	8	13.72	-	-	1.65	0.50	2.24	0.64	3.02	0.81	3.02	0.81	-	-	-	-
3/8	10	17.15	-	-	1.65	0.64	2.31	0.86	3.2	1.12	3.2	1.12	-	-	-	-
1/2	15	21.34	1.65	0.81	2.11	1.02	2.77	1.29	3.76	1.64	3.73	1.64	4.78	1.98	7.47	2.59
3/4	20	26.67	1.65	1.03	2.11	1.30	2.87	1.71	3.91	2.23	3.91	2.23	5.56	2.94	7.82	3.69
1	25	33.40	1.65	1.31	2.77	2.12	3.38	2.54	4.55	3.29	4.55	3.29	6.35	4.30	9.09	5.53
1.1/4	32	42.16	1.65	1.67	2.77	2.73	3.56	3.44	4.85	4.53	4.85	4.53	6.35	5.69	9.7	7.88
1.1/2	40	48.26	1.65	1.92	2.77	3.15	3.68	4.11	5.08	5.49	5.08	5.49	7.14	7.35	10.15	9.68
2	50	60.33	1.65	2.42	2.77	3.99	3.91	5.52	5.54	7.60	5.54	7.60	8.74	11.29	11.07	13.65
2.1/2	65	73.03	2.11	3.75	3.05	5.34	5.16	8.77	7.01	11.58	7.01	11.58	9.53	15.15	14.02	20.71
3	80	88.90	2.11	4.58	3.05	6.55	5.49	11.46	7.62	15.50	7.62	15.50	11.13	21.67	15.24	28.10
3.1/2	-	101.60	2.11	5.25	3.05	7.52	5.74	13.77	8.08	18.91	8.08	18.91	-	-	-	-
4	100	114.30	2.11	5.93	3.05	8.49	6.02	16.32	8.56	22.66	8.56	22.66	13.49	34.04	17.12	41.64
5	125	141.30	2.77	9.60	3.4	11.74	6.55	22.09	9.53	31.43	9.53	31.43	15.88	49.85	19.05	58.29
6	150	168.28	2.77	11.48	3.4	14.03	7.11	28.68	10.97	43.19	10.97	43.19	18.25	68.53	21.95	80.39
8	200	219.08	2.77	15.00	3.76	20.26	8.18	43.18	12.7	65.60	12.7	65.60	23.01	112.92	22.23	109.53
10	250	273.05	3.4	22.95	4.19	28.20	9.27	61.20	12.7	82.76	12.7	82.76	28.58	174.88	25.4	157.45
12	300	323.85	3.96	31.71	4.57	36.52	9.52	74.90	12.7	98.91	12.7	98.91	33.32	242.30	25.4	189.74
14	350	355.60	3.96	34.85	4.78	41.97	-	-	12.7	109.00	-	-	35.71	285.92	-	-
16	400	406.40	4.19	42.18	4.78	48.05	-	-	12.7	125.15	-	-	40.49	370.84	-	-
18	450	457.20	4.19	47.51	4.78	54.13	-	-	12.7	141.30	-	-	45.24	466.49	-	-
20	500	508.00	4.78	60.21	5.54	69.67	-	-	12.7	157.45	-	-	50.01	573.29	-	-
22	550	559.00	4.78	66.31	5.54	76.75	-	-	12.7	173.66	-	-	53.98	682.34	-	-
24	600	610.00	5.54	83.82	6.35	95.94	-	-	12.7	189.87	-	-	59.54	820.34	-	-
26	650	660.00	-	-	-	-	-	-	12.7	205.7644	-	-	-	-	-	-
28	700	711.00	-	-	-	-	-	-	12.7	221.9763	-	-	-	-	-	-



CHEMICAL COMPOSITION

Classification	AISI	CHEMICAL COMPOSITION										Other
		C (max)	Si (max)	Mn (max)	P (max)	S (max)	Ni (max)	Cr (max)	Mo (max)	Cu (max)	N (max)	
Austenitic Grades	304	0.08	1.00	2.00	0.045	0.030	8.00-10.50	18.00-20.00	-	-	-	-
	304L	0.03	1.00	2.00	0.045	0.030	9.00-13.00	18.00-20.00	-	-	-	-
	304N	0.08	1.00	2.50	0.045	0.030	7.00-10.50	18.00-20.00	-	-	0.10-0.25	-
	304LN	0.03	1.00	2.00	0.045	0.030	8.50-11.50	17.00-19.00	-	-	0.12-0.22	-
	310S	0.08	1.50	2.00	0.045	0.030	19.00-22.00	24.00-26.00	-	-	-	-
	316	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	-	-	-
	316L	0.03	1.00	2.00	0.045	0.030	12.00-15.00	16.00-18.00	2.00-3.00	-	-	-
	316N	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	-	0.10-0.22	-
	316LN	0.03	1.00	2.00	0.045	0.030	10.50-14.50	16.50-18.50	2.00-3.00	-	0.12-0.22	-
	316Ti	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	-	-	Ti Min.5xC%
	317	0.08	1.00	2.00	0.045	0.030	11.00-15.00	18.00-20.00	3.00-4.00	-	-	-
	317L	0.03	1.00	2.00	0.045	0.030	11.00-15.00	18.00-20.00	3.00-4.00	-	-	-
	321	0.08	1.00	2.00	0.045	0.030	9.00-13.00	17.00-19.00	-	-	-	Ti Min.5xC%
	347	0.08	1.00	2.00	0.045	0.030	9.00-13.00	17.00-19.00	-	-	-	Nb Min.10xC%
Ferritic/ Martensitic Grades	410	0.15	1.00	1.00	0.040	0.030	-	11.50-13.50	-	-	-	-
	405	0.08	1.00	1.00	0.040	0.030	-	11.50-14.50	-	-	-	Al 0.10-0.30
	430	0.12	0.75	1.00	0.040	0.030	-	16.00-18.00	-	-	-	-
Duplex/ Super Duplex Grades	UNS S 31803	0.030	1.00	2.00	0.030	0.020	4.5-6.5	21.00-23.00	2.5-3.5	-	0.08-0.20	-
	UNS S 32205	0.030	1.00	2.00	0.030	0.020	4.5-6.5	22.00-23.00	3.0-3.5	-	0.14-0.20	-
	UNS S 32750	0.030	0.80	1.20	0.035	0.020	6.0-8.0	24.00-26.00	3.0-5.0	0.50	0.24-0.32	-
	UNS S 32304	0.030	1.00	2.50	0.040	0.040	3.0-5.5	21.5-24.5	0.05-0.60	0.05-0.60	0.05-0.20	-

STAINLESS STEEL GUAGES FOR TUBING

	Guage No.	In mm as per SWG	In mm as per BWG	Guage No.	In mm as per SWG	In mm as per BWG
	1	7.62	7.62	14	2.032	2.108
	3	6.401	6.578	16	1.626	1.651
	5	5.385	5.588	18	1.219	1.244
	7	4.47	4.572	20	0.914	0.889
	9	3.658	3.759	22	0.711	0.711
	11	2.946	3.048	24	0.559	0.559

Inspection and Testing Equipments

	Name Of Machine	No. of Machines	Work Description
1.	Universal Tensile Testing Machine-(40T)	1	To obtain the mechanical properties of finished tubes & pipes and testing for flaring, flange test, flattening, R.flattening, reverse bending
2.	ROCKWELL Hardness Testing Machine	1	Hardness tester is used for measuring hardness values of tubes & pipes.
3.	Vickers Hardness Tester	1	Hardness tester is used for measuring hardness values of tubes & pipes
4.	Hydrostatic Test Machine	3	All hydrostatic test machines is used for carried out on finished tubes / pipes to check the tube for any leakage under elevated hydraulic water pressure as per specification or customer requirement
5.	Eddy Current Testing Machine	1	This is the non destructive test carried out to detect the surface defect / pin holes on the outside diameter or inside diameter of the tube
6.	Polishing Machine	1	Single 200 mm diameter disc polisher with variable speed facility for polishing of test pcs.
7.	Spectrometer	1	Spectrometer which is used for in house product analysis. It can measure up to 26 elements and gives the result of any sample within 60 seconds. It gives us very fast & highly accurate results.
8.	Metallurgical Micro Scope	1	Involves grain structure examination as per specification. (Microstructure as per E-112)
9.	Double Disk Grinding Machine	1	To grind with precision
10.	Chemical Testing Laboratory	1	Facility to carry out day to day testing of different solution used in pickling department & IGC testing practice 'E' & 'A' as per ASTM A-262
11.	Surface Roughness Tester	1	Test is carried out for measuring roughness of the tube & pipe for outer surface
12.	PMI Testing	2	Rapidly verify alloys in seconds
13.	Dial Vernier Caliper	10	Measure diameter & thickness of the tubes & pipe
14.	Ultrasonic Thickness Gauge	1	This instrument measure the thickness at any point of the tube & pipe with accuracy of 0.1 mm



TESTINGS

Mandatory tests we conduct

Hydro Test:

100% Compulsory Test for each & every Tube / Pipe produced in our plant as per the specifications required by our customers

Visual & Dimension Inspection:

100% Compulsory Test For each & every Tube / Pipe produced in our plant by Well Technically Qualified Engineers to check any type of surface defects or scratches on Tube / Pipe

Mechanical Test:

All Mechanical Testing on Tube / Pipe like Hardness Test, Tensile Test, Flattening & Flaring Test, Reverse Bend & Flattening Test as per the specification requirement

Chemical Test:

100% Compulsory Test for each & every Tube / Pipe produced in our plant.



Supplementary tests we conduct on client's requirement

Eddy Current Test:

This Test is carried out to detect Sub surface in homogeneity as per ASTM – 426.

PMI Test:

This Test is carried out for the grade confirmation of material at our in house facility.

Ultrasonic Test:

This Test is carried out to detect Special Process Flow as per ASTM A 213 / A 450.

Micro & Macro Test:

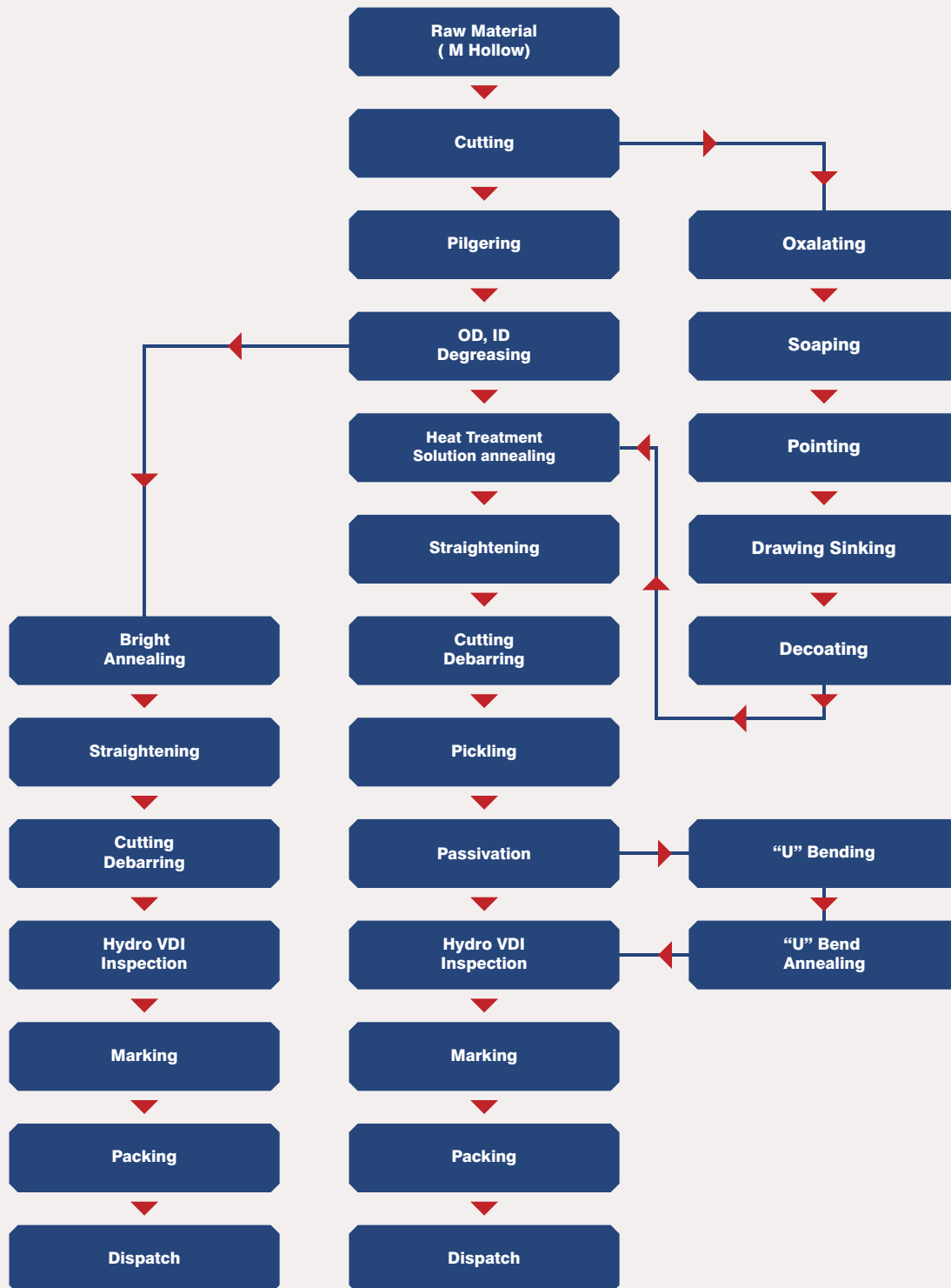
This Test is carried out to certify microstructure, grain size as per ASTM E 112, to ensure that Carbides are dissolved and corrosion resistance is at Maximum.

Intergranular Corrosion Test:

This Test is carried out to determine the materials' intergranular attract and to measure the rate of corrosion as per standard ASTM A-262 practice "A", "B", "C" OR "E" within our company's own facilities with well built laboratory.



MANUFACTURING PROCESS OF SEAMLESS TUBES / PIPES



MANUFACTURING PROCESS OF WELDED TUBES / PIPES



Raw Material
(S S Slits)

Tube Mill TIG
Plasma Welding

OD, ID Bead
Removing

On Line Cutting

Debburing

OD, ID
Degreasing

Heat Treatment
Solution annealing

Straightening

Pickling

Passivation

Hydro Testing

VDI / Inspection

Packing

Despatch

"U" Bending

"U" Bend
Annealing

CERTIFICATIONS & APPROVALS



Certification

- ▲ ISO 9001 : 2008
- ▲ AD 2000 – MERKBLATT W0
- ▲ PED (Pressure Equipment Directive) 97/23 EC
- ▲ ISO 14001 : 2004
- ▲ OHSAS 18001 : 2007
- ▲ IBR (Indian Boiler Regulation)
- ▲ EIL (Engineering India Ltd.)
- ▲ NORSOKE - Under Progress
- ▲ SABIC - Under Progress
- ▲ KNPC - Under Progress



Third Party Approvals

- ▲ Lloyds Register Asia
- ▲ Bureau Veritas (BV)
- ▲ Det Norske Veritas (DNV)
- ▲ TUV (SUD)
- ▲ TUV (NORD)
- ▲ SGS
- ▲ Certified Engineers India Ltd. (CEIL)
- ▲ Chempro Inspections Pvt. Ltd.

Any Reputed Third Party recommended by the Client

