



## **KANAKRATNA STEELAGE PVT LTD**

*Specialist Of High Performance Nickel Alloys*

An ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007  
PED 2014/68/EU & GOVT, RECOGNISED EXPORT HOUSE



**Manufacturer & Exporter Of :**  
**Stainless Steel & High Nickel Alloy**  
**Welded, Seamless Pipes**  
**Tubes | Fittings**



## ABOUT US



**KANAKRATNA STEELAGE PVT LTD** is one of the leading India's Manufacturer & Exporters of Stainless Steel, Duplex, Super Duplex, Nickel alloy and Exotic grade material Welded & Seamless Pipes, Tubes & Fittings.

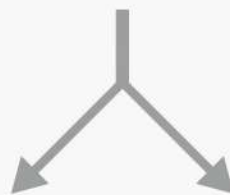
The **QUALITY** of our product has been accepted and appreciated worldwide & timely tested by our valued clients throughout the globe which includes end-users, EPC, fabricators, big stockholders & traders to more than 900 customers based across 28 countries spread over 5 continents since 25 years.

We are Manufacturers & Supplier of high Precision & Heat Exchanger Tubes, Hydraulic & Instrumentation Tubes, Seamless pipes, Welded pipes & Box pipes in surface finish of Bright annealed (CFA), Solution Annealed Pickled (CFD) & Passivated & Polished Tube.

Our Application consist of Heat exchangers, Condensers & pressure vessels, Chemical & Petrochemical, Waste water treatment plant, Marine Equipments, Food & Beverage Processing, Pulp & Paper, Automotive, Aerospace, Nuclear power, Pharma piping.




## GROUP COMPANIES




## WELDED PIPES & TUBES

### ERW Pipes

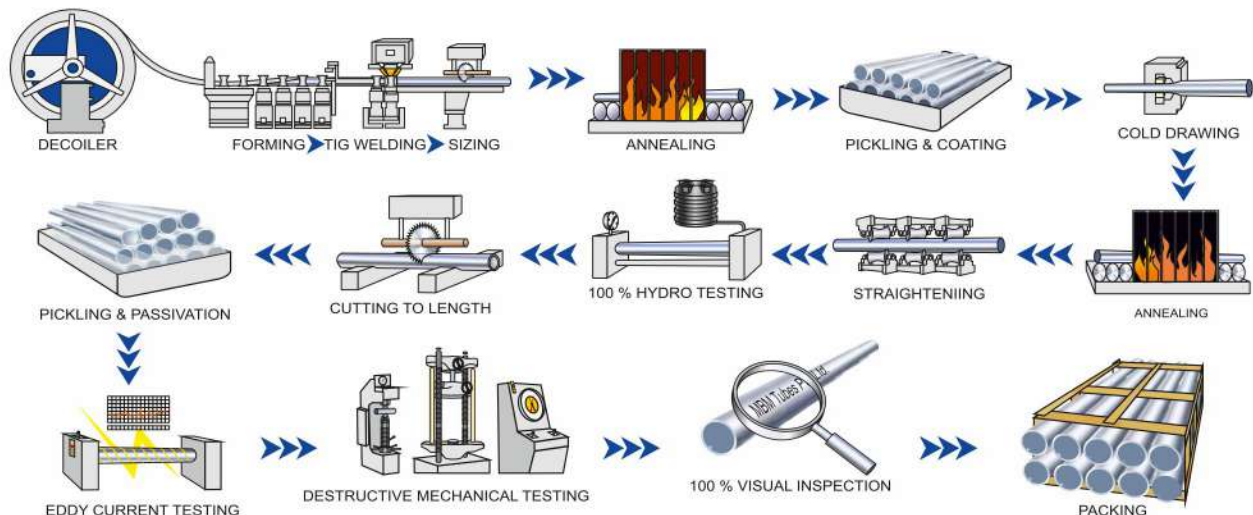
Specification	ASME (ASTM A213/A269/A312/EN 10216-5 DIN 2391/ASTMA 789/ASTMA 803)	
O.D	3.175mm to 406.4mm	
N.B	1/8" - 16"	
Thickness	0.6mm to 25mm	
Length	up to 30 meters	
Process Features	Bright Annealed or Solution Annealed - Pickled & Passivated	
Surface Finish	Bright / Pickled / Polished (ID & OD)	
Grade	304 / 304L / 304H / 316 / 316L / 317 / 317L / 309S / 310S / 310H / 321 / 321H / 347 / 347H / 316H / 316Ti/904L/254 SMO / 6MO / Alloy 2205 / 2507 / 32760 / Monel 400 / Inconel 625 / Inconel 825 / Alloy 20	

### EFW (Electric Fusion Welded) Pipes

Specification	ASTM A358 / A409, A778	
O.D	8"NB to 24"NB (219.1 to 609.6mm), 18 to 48" (457.2 to 1220mm)	
Thickness	2.5 to 32mm & 2.5 to 14.0mm	
Length	6 mtrs. Double random lengths are possible with one circumferential joint 3.5 to 6mtrs.	
Process Features	In solution Annealed or as Welded condition. Finish Pickled	
Type	Pipe with one Longitudinal Seam, Pipe with Circumferential welding joints	
Welded Method	TIG, Plasma, SAW welding used in isolation or any combination thereof TIG, Plasma, GTAW welding used in isolation or any combination thereof	

## PROCESS OF WELDED PIPE & TUBE

Welded Tubes Making Operation Are Carried Out On The Tube Mill. Cold/Hot Stainless Steel Strip Are Slitted To The Required width As Per The Diameter Of Tube To Be Formed. It Is then Annealed, Straightened, Hydro-tested, Pickled And Passivated. The Tubes Then Undergo A 100% Visual And Dimensional Inspection, Then The Tubes Are Marked And Suitably Packed Before Dispatch.



## SEAMLESS PIPES & TUBES

### PILGERING

Cold Pilgering are longitudinal cold rolling process that reduce the diameter and wall thickness of metal tube in one process step.

### COLD DRAWING

In Cold drawing process the tubes are pulled through tungsten carbide by applying some special lubricant oil and wall thickness corresponding increase in tube length.

### OUR PRODUCT RANGE :

<b>Size</b>	6mm OD to 609.6mm OD
<b>Thickness</b>	0.5mm Thick to 60mm Thick
<b>Length</b>	1 Mtr upto 24 Mtrs Long As per Customer's requirements

**SPECIFICATION:** ASTM A-213, A-268, A-269, A-270, A-312, EN 10216-5, EN 10266-5 & Its Equivalent ASME, DIN & EN standard

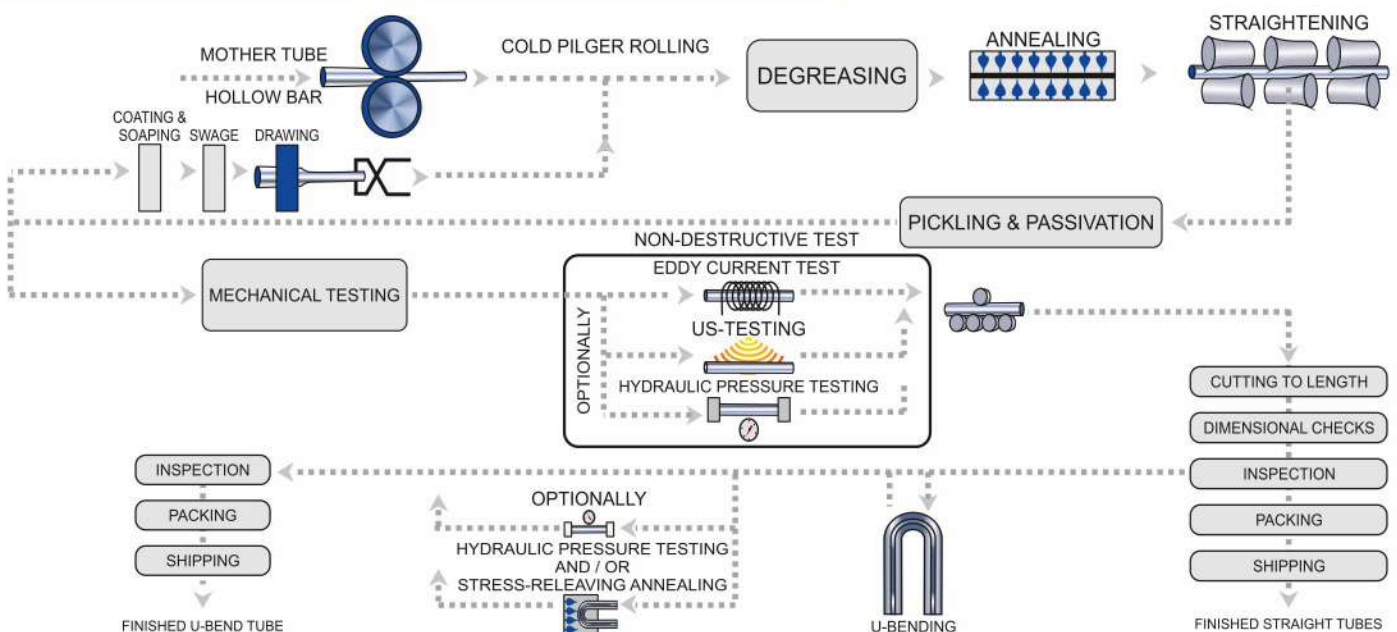
**AUSTENITIC GRADES :** 304, 304L, 304H, 316, 316L, 316Ti, 316H, 317, 317L, 321, 321H, 347, 347H, 301, 310S, 310H, 904L & Its Equivalents

**DUPLIX & SUPER DUPLIX STEEL:** UNS 31803, 32205, 32750, 31500 & Its Equivalents

**SURFACE FINISHED:** We can provide Pipes and Tubes with Mechanical Polish with Grits of 80, 120, 240, 320, 400, and 600 grit & Mirror Polished



## PROCESS OF SEAMLESS PIPE & TUBE



## STAINLESS STEEL BOX PIPES



**SQUARE PIPE**



**RECTANGULAR PIPE**

Square	15x15 mm to 100x100 mm
Rectangular	15x30 mm to 100x50 mm
Wall Thickness Range	1.0 mm to 6.0 mm
Length	As per Requirement, Maximum up to 12 Meter long.
Grades	As per Requirement
Specification	As per Requirement
Supply Condition	Annealed, pickled and passivated. Can be supplied polished condition on requirement.

## PIPE FITTINGS



**BUTTWELD FITTINGS**



**FLANGES**

## QUALITY CONTROL

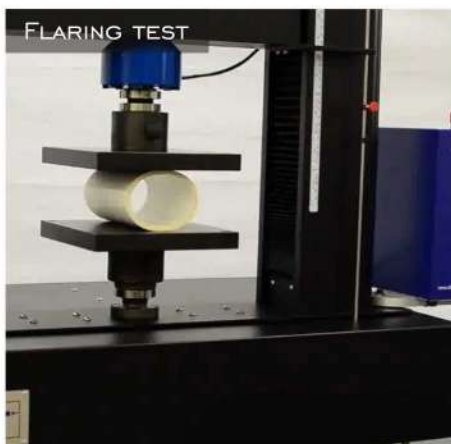
At **Kanakratna Steelage** Pipes/Tubes are manufactured on most modern production, equipment, whereby the applied production methods assure the highest possible standard of quality. Moreover for continuous quality assurance of control, our independent testing department is equipped with most modern testing facilities.

All our Pipes & Tubes are manufactured as per approved quality manual, we follow up production as per approved QAP which include checking right from the issue of purchase order, raw material, incoming materials, stage wise inspection during production till inspection & Dispatch.



### DESTRUCTIVE TESTING

- Tensile Test
- Hardness Test
- Flattening Test
- Reverse Flattening Test
- Flaring Test
- Bend Test
- Reverse Bend Test
- IGC Test – Practice A, B, C & E
- Impact Test
- Macro & Micro Examination
- Spectro Test



### NON-DESTRUCTIVE TESTING

- Hydrostatic Test
- Air Under Water Test
- Eddy current Test
- PMI Test
- Ultrasonic Test
- Radiography Test
- Dye Penetrat Test
- Boroscope Test



## SPECIAL ALLOYS

**Monel | Hastelloy | Inconel | Super Duplex | Alloy 20 |  
Nimonic | Nitronic | Bronze | SMO | 904L | Stellite | Nickel**

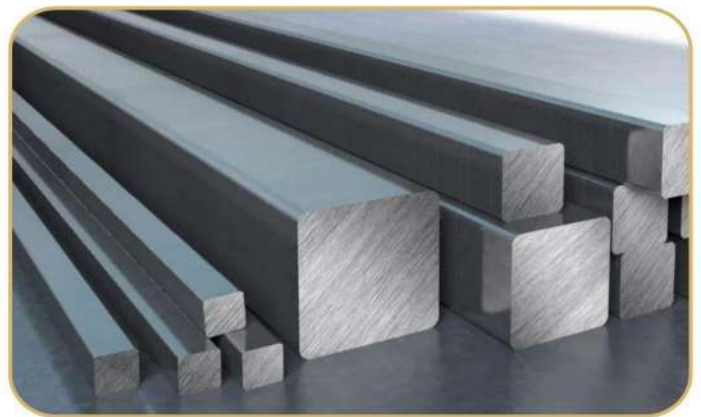
### ROUND BARS :



### HEX BARS :



### SQUARE BARS :



### OUR FORGING UNIT :

Ground Floor 17, Plot No. 255, Kolsa Bunder Road, Darukhana,  
Mazgaon, Mumbai-400010.

**Email : [kanakratnasteelage@hotmail.com](mailto:kanakratnasteelage@hotmail.com)**

**Web.: [www.kanakratnasteelage.com](http://www.kanakratnasteelage.com)**

## WEIGHT & THICKNESS CHART OF PIPES

Nominal pipe size		Outside Diameter		Sch-5S		Sch-10S		Sch-10		Sch-20		Sch-30		Sch-40S		Sch-80		Sch-160		Sch-XX		
mm	inch	mm	inch	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	
6	1/8"	10.29	0.405	1	0.23	1.24	0.28	IDENTICAL TO SCH 10S		--	--	--	--	1.73	0.37	2.41	0.48	--	--	--	--	
8	1/4"	13.72	0.540	1.2	0.37	1.65	0.49			--	--	--	--	2.24	0.64	3.02	0.81	--	--	--	--	
10	3/8"	17.15	0.675	1.2	0.47	1.65	0.63			--	--	--	--	2.31	0.86	3.20	1.12	--	--	--	--	
15	0.5"	21.34	0.840	1.65	0.81	2.11	1.00			--	--	--	--	2.77	1.29	3.73	1.64	4.78	1.98	7.47	2.59	
20	3/4"	26.67	1.050	1.65	1.03	2.11	1.28			--	--	--	--	2.87	1.71	3.91	2.23	5.56	2.94	7.82	3.69	
25	1"	33.4	1.315	1.65	1.31	2.77	2.09			--	--	--	--	3.38	2.54	4.55	3.29	6.35	4.30	9.09	5.53	
32	1-1/4"	42.16	1.660	1.65	1.67	2.77	2.69			--	--	--	--	3.56	3.44	4.85	4.53	6.35	5.69	9.7	7.88	
40	1-1/2"	48.26	1.900	1.65	1.93	2.77	3.10			--	--	--	--	3.68	4.11	5.08	5.49	7.23	7.43	10.16	9.69	
50	2"	60.33	2.375	1.65	2.42	2.77	3.92			--	--	--	--	3.91	5.52	5.54	7.60	8.74	11.29	11.07	13.65	
65	2-1/2"	73.03	2.875	2.11	3.75	3.05	5.27			--	--	--	--	5.16	8.77	7.01	11.58	9.53	15.15	14.02	20.71	
80	3"	88.9	3.500	2.11	4.59	3.05	6.45			--	--	--	--	5.49	11.46	7.62	15.50	11.13	21.67	15.24	28.10	
90	3-1/2"	101.6	4.000	2.11	5.25	3.05	7.40			--	--	--	--	5.74	13.77	8.08	18.91	--	--	16.15	34.54	
100	4"	114.3	4.500	2.11	5.93	3.05	8.35			--	--	--	--	6.02	16.32	8.56	22.66	13.49	34.04	17.12	41.64	
125	5"	141.3	5.563	2.77	9.61	3.4	11.56			--	--	--	--	6.55	22.09	9.53	31.43	15.88	49.85	19.05	58.29	
150	6"	168.28	6.625	2.77	11.48	3.4	14.04			--	--	--	--	7.11	28.68	10.97	43.19	18.26	68.57	21.95	80.39	
200	8"	219.1	8.625	2.77	15.01	3.76	20.26			6.35	33.81	7.04	37.37	8.18	43.18	12.70	65.61	23.01	112.94	22.23	109.54	
250	10"	273	10.750	3.4	22.95	4.19	28.20			6.35	42.38	7.8	51.78	9.27	61.19	15.06	97.23	28.58	174.85	25.4	157.41	
300	12"	323.9	12.750	3.96	31.72	4.57	36.53			6.35	50.47	8.38	66.18	9.53	74.99	17.45	133.85	33.32	242.34	25.4	189.77	
350	14"	355.6	14.000	3.96	34.87	4.78	41.97		6.35	54.77	7.92	68.92	9.53	82.55	9.53	82.55	19.05	160.47	35.71	285.92	--	--
400	16"	406.4	16.000	4.19	42.20	4.78	48.05		6.35	62.74	7.92	78.99	9.53	94.67	9.53	94.67	21.41	206.31	40.49	370.84	--	--
450	18"	457.2	18.000	4.19	47.53	4.78	53.41		6.35	70.71	7.92	89.06	11.13	124.27	9.53	106.79	--	--	45.24	466.49	--	--
500	20"	508	20.000	4.78	60.23	5.54	68.75		6.35	78.68	9.53	118.90	12.7	157.45	9.53	118.90	--	--	50.01	573.29	--	--
550	22"	558.8	22.000	4.78	66.28	5.54	75.53		6.35	86.64	9.53	131.02	12.7	173.59	9.53	131.02	--	--	53.97	681.96	--	--
600	24"	609.6	24.000	5.54	83.76	6.35	94.45		6.35	94.61	9.53	143.14	14.27	212.64	9.53	143.14	--	--	59.54	819.75	--	--

## SWG/BWG DIMENSION & WEIGHT PER METER

Gauge No.		10		12		14		16		18		19		20		22	
Dimension		SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG
Size	OD (mm)	3.251	3.404	2.642	2.769	2.032	2.1089	1.626	1.651	1.219	1.245	1.016	1.067	0.914	0.889	0.711	0.711
1/4"	6.35	-	-	-	-	0.218	0.222	0.191	0.192	0.155	0.158	0.134	0.140	0.123	0.120	0.099	0.099
5/16"	7.93	-	-	-	-	0.297	0.305	0.254	0.257	0.203	0.206	0.174	0.182	0.159	0.155	0.127	0.127
3/8"	9.52	0.506	0.517	0.451	0.464	0.377	0.388	0.318	0.322	0.251	0.256	0.214	0.224	0.195	0.190	0.155	0.155
1/2"	12.70	0.762	0.785	0.659	0.682	0.538	0.554	0.447	0.453	0.347	0.354	0.295	0.308	0.267	0.261	0.211	0.211
5/8"	15.87	1.018	1.053	0.867	0.900	0.698	0.720	0.575	0.582	0.443	0.452	0.374	0.392	0.339	0.330	0.267	0.267
3/4"	19.05	1.274	1.321	1.076	1.118	0.858	0.886	0.703	0.713	0.539	0.550	0.455	0.476	0.411	0.401	0.323	0.323
1"	25.40	1.786	1.858	1.492	1.555	1.178	1.219	0.959	0.973	0.731	0.746	0.615	0.644	0.555	0.541	0.436	0.435
1 1/4"	31.82	2.304	2.400	1.913	1.996	1.502	1.555	1.218	1.236	0.925	0.944	0.776	0.814	0.701	0.682	-	-
1 1/2"	38.10	2.811	2.930	2.324	2.427	1.818	1.883	1.471	1.493	1.115	1.138	0.935	0.980	0.843	0.821	-	-
1 3/4"	45.45	3.404	3.551	2.806	2.932	2.189	2.268	1.768	1.794	1.338	1.365	1.120	1.175	1.010	0.983	-	-
2"	50.80	3.825	4.003	3.157	3.300	2.459	2.548	1.984	2.013	1.499	1.531	1.255	1.317	1.131	1.101	-	-
2 1/4"	57.15	4.347	4.539	3.573	3.736	2.779	2.880	2.240	2.273	1.692	1.727	1.415	-	-	-	-	-
2 1/2"	63.50	4.860	5.075	3.989	4.172	3.099	3.212	2.496	2.533	1.884	1.923	1.575	-	-	-	-	-
2 3/4"	69.85	5.372	5.612	4.405	4.608	3.419	3.544	2.752	2.794	2.076	2.119	1.735	-	-	-	-	-
3"	76.20	5.884	6.148	4.822	5.045	3.739	3.877	3.008	3.054	-	-	-	-	-	-	-	-
3 1/2"	88.90	6.908	7.220	5.654	5.917	4.379	4.541	-	-	-	-	-	-	-	-	-	-
4"	101.60	7.933	8.293	6.487	6.790	5.020	5.206	-	-	-	-	-	-	-	-	-	-

## TABLE OF GAUGES

	Gauge No.	10	12	14	16	18	19	20	22
S.W.G. (Standard Wire Gauge)	Inch	0.128	0.104	0.080	0.064	0.048	0.040	0.036	0.028
	MM	3.251	2.642	2.032	1.626	1.219	1.016	0.914	0.711
B.W.G. (Birmingham Wire Gauge)	Inch	0.134	0.109	0.083	0.065	0.049	0.042	0.036	0.028
	MM	3.404	2.769	2.108	1.651	1.245	1.067	0.889	0.711



## TECHNICAL DATA

### ASTM STANDARD FOR SEAMLESS & WELDED PIPES & TUBES

	Allowable Outside Diameter Variation in mm			Allowable wall		Exact Length		Testing	
	Nominal	Diameter	Over	Under	Over %	Under %	Over		Under
ASTM A - 213 Seamless Boiler Superheater & Heat Exchanger tubes	Under 25.4		.1016	.1016	+20	-0	3.175	0	Tension Test Flattening Test Flaring Test Hardness Test 100% Hydrostatic Test Refer to ASTM A - 1016
	25.4- 38.1 Incl.		.1524	.1524	+20	-0	3.175	0	
	38.1- 50.8 excl.		.2032	.2032	+22	-0	3.176	0	
	50.8- 63.5 excl.		.254	.254	+22	-0	3.76	0	
	63.5- 76.2 excl.		.3048	.3048	+22	-0	4.76	0	
	76.2- 101.6 incl.		.381	.381	+22	-0	4.76	0	
ASTM - A 249 Welded Boiler Superheater, Heat Exchanger & Condenser Tubes	Under 25.4		.1016	.1016	+10	-10	3.175	0	Tension Test Flattening Test Flaring Test * Reverse Bend Test Hardness Test 100% Hydrostatic Test * Reverse Flattening Test Refer to ASTM A - 1016 * Whenever Applicable
	25.4- 38.1 Incl.		.1524	.1524	+10	-10	3.175	0	
	38.1- 50.8 excl.		.2032	.2032	+10	-10	3.175	0	
	50.8- 63.5 excl.		.254	.254	+10	-10	4.76	0	
	63.5- 76.2 excl.		.3048	.3048	+10	-10	4.76	0	
	76.2- 101.6 incl.		.381	.381	+10	-10	4.76	0	
ASTM - A 269 Seamless & Welded Tubing for General Service	Upto 12.7		.13	.13	+15	-15	3.2	0	Flare Test (Seamless Tube) Flange Test (Welded only) Hardness Test Reverse Flattening Test (Welded Only) 100% Hydrostatic Test Refer to ASTM A - 1016
	12.7- 38.1 excl.		.13	.13	+10	-10	3.2	0	
	38.1- 88.9 excl.		.25	.25	+10	-10	4.8	0	
	88.9- 139.7 excl.		.38	.38	+10	-10	4.8	0	
	139.7 203.2 excl.		.76	.76	+10	-10	4.8	0	
ASTM - A 312 Seamless & Welded Austenitic Pipe	10.29 - 48.26		0.40	0.80	+20 %				Tension Test Flattening Test 100% Hydrostatic Test
	48.3 - 73.03		0.80	0.80	-12.5 %				
	73.03 - 114.3		0.80	0.80	+22.5 %				
	114.3 - 219.08		1.60	0.80	-12.5 %				
ASTM A-270 Seamless & Welded Austenitic Pipes	25.4		.05	.20	+12.5	-12.5	3.2	0	Reverse Flattening Test 100% Hydrostatic Test External Polish on all tubes Refer to ASTM A - 1016
	38.1		.05	.20	+12.5	-12.5	3.2	0	
	50.8		.05	.28	+12.5	-12.5	3.2	0	
	63.5		.05	.28	+12.5	-12.5	3.2	0	
	76.2		.08	.30	+12.5	-12.5	3.2	0	
	101.6		.08	.38	+12.5	-12.5	3.2	0	
ASTM A -268 Seamless & Welded Ferritic & Martengitic Stainless Steel Tubes	under 12.7		.13	.13	+15	-15	3.2	0	Tension Test, Flaring Test, Flange Test, (ERW only) Hardness Test, Reverse Fla- ttening Test, 100% hydrostatic Test, Refer to ASTM A - 450
	12.7 38.1 incl.		.13	.13	+10	-10	3.2	0	
	38.1 excl. 88.9 incl.		.25	.25	+10	-10	4.8	0	
	88.9- 168.3 excl.		.38	.38	+10	-10	4.8	0	
ASTM A 358 for Welded big diameter Pipes	for all sizes 5"NB & above		+0.5%	-0.5%	-	-0.3 mm	Customer's Specification		Transverse tension test, Transverse guided bend test Hydrostatic test, radiographic examination ( as specified) dye penetrant (optional)
ASTM A 688 For Welded Feed Water- heater 'U' tubes	Under 25.4 mm		.1016	.1016	+20 +10	-0 ( for min wall thk. ) -10 (for Avg. wall thk. )	3 to 13	0	Tension, Hardness, Corrosion, Reverse bend, Flange, Flattening, Hydrostatic Test, Pneumatic Test, Non Destructive Test
ASTM A 778 Austenitic Stainless Steel Tubular Product	As per Table 1 Welded Unannealed ASTM A 530				12.5%	12.5%	RL 10ft > 3 meter FL 6 meter + 6mm - 0mm		Transverse Tension Test Transverse Guided Test

\* Eddy Current non destructive test & inter granular corrosion test can be offered on request

## EQUIVALENT EN SPECIFICATIONS

EN 10216 - 5	Seamless Stainless Steel Tubes for Pressure Purpose
EN 10297 - 2	Seamless Stainless Steel for Mechanical & General Engineering Purpose
EN 10246 - 2	Non - Destructive Testing of Steel Tubes
EN ISO 1127	Dimensions & Tolerances of Stainless Steel Tubes

Tolerance on OD	Permissible Deviation on OD (Whichever is Greater)	Tolerance on THK	Permissible Deviation on THK (Whichever is Greater)
D1	± 1.5 % or ± 0.75 mm	T1	± 15 % or ± 0.6 mm
D2	± 1 % or ± 0.5 mm	T2	± 12.5 % or ± 0.4 mm
D3	± 0.75 % or ± 0.3 mm	T3	± 10 % or ± 0.2 mm
D4	± 0.5 % or ± 0.1 mm	T4	± 7.5 % or ± 0.15 mm

## CHEMICAL COMPOSITION OF STAINLESS STEEL

GRADE	UNS No.	EN No.	C	Cr	Ni	Mo	Others
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### Austenitic & Super Austenitic Stainless Steel

304	S30400	1.4301	0.08	18.00 - 20.00	8.00 - 12.00	-	-
304L	S30403	1.4307	0.035	18.00 - 20.00	8.00 - 12.00	-	-
310S	S31008	1.4845	0.08	24.00 - 26.00	19.00 - 22.00	-	-
316	S31600	1.4401	0.08	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	-
316L	S31603	1.4404	0.035	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	-
316H	S31609	-	0.04 - 0.10	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	-
316Ti	S31635	1.4571	0.08	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	Ti:5x(C+N) - 0.7
317L	S31703	1.4438	0.035	18.00 - 20.00	11.00 - 15.00	3.00 - 4.00	-
321	S32100	1.4541	0.08	17.00 - 19.00	9.00 - 12.00	-	Ti:5x(C+N) - 0.7
347	S34700	1.4550	0.08	16.00 - 18.00	10.00 - 14.00	-	-
347H	S34709	1.4551	0.04 - 0.10	17.00 - 20.00	9.00 - 13.00	-	-
904L	S8904	1.4539	0.02	19.00 - 23.00	23.00 - 28.00	4.00 - 5.00	N:0.10 max Cu : 1.0 - 2.0

### Duplex & Super Duplex Stainless Steel

Alloy 2205	31803	1.4462	0.03	21.00 - 23.00	4.50 - 6.50	2.50 - 3.50	N : 0.08 - 0.20
Alloy 2507	32750	1.4410	0.03	24.00 - 26.00	6.00 - 8.00	3.00 - 4.50	N : 0.24 - 0.32
Alloy 32760	32760	1.4501	0.05	24.00 - 26.00	6.00 - 8.00	3.00 - 4.00	N : 0.20 - 0.30

### Nickel Alloys

Alloy 20	8020	2.4460	0.07	19.00 - 21.00	32.00 - 38.00	2.00 - 3.00	Cu : 3.00 - 4.00
Alloy 28	8028	1.4563	0.03	26.00 - 28.00	30.00 - 34.00	3.00 - 4.00	Cu : 0.60 - 1.40
Monel 400	4400	2.4360	0.30	-	63.00 Min	-	Cu : 28.00 - 34.00
Inconel 600	6600	2.4816	0.15	14.00 - 17.00	72.00 Min	-	Fe : 6.00 - 10.00
Inconel 625	6625	2.4865	0.10	20.00 - 23.00	58.00 Min	8.00 - 10.00	Fe: 5.00 Max Nb+Ta : 3.15 - 1.15
Inconel 800	8800	-	0.10	19.00 - 23.00	30.00 - 35.00	-	Fe: 39.50 Max
Inconel 825	8825	2.4858	0.05	19.50 - 23.50	38.00 - 46.00	2.50 - 3.50	Fe : 22.00 Min
Hastelloy C-276	N 10276	-	0.01	14.50 - 16.50	-	15.00 - 17.00	Fe: 5.00 Max Nb+Ta : 3.35 - 4.15
Hastelloy C-22	N 1022	2.4602	-	21.00 - 22.00	21.00 - 22.00	14.00 - 15.00	-
Monel K-500	5500	-	-	-	30.00 - 31.00	-	-

<b>ASTM</b>	American Society for Testing of Materials	<b>ASME</b>	American Society for Mechanical Engineers	<b>SAE</b>	Society of Automotive Engineers
<b>DIN</b>	Deutsches Institute for Normung	<b>JIS</b>	Japan Industrial Standards	<b>UNS</b>	Unified Numbering System
<b>GOST</b>	Gosudar stvenil Standart	<b>TEMA</b>	Tubular Exchanger Manufacturers Association	<b>PED</b>	Pressure Equipment Directive

## PACKING

Kanakratna Steelage's Packing and Dispatch department are always committed to on time Delivery of the material. Pipes & Tubes are properly packed so as it reaches customers without any damages



### TYPES OF PACKING

- Hessain Cloth Packing
- HDPE Packing
- Seaworthy Crate Box.
- Hexagonal Strap Packing
- Seaworthy Wooden Box
- Rectangular Woodan Frame

## APPLICATION INDUSTRIES



- CHEMICAL
- OIL & GAS INDUSTRIES
- POWER PLANT
- PHARMACEUTICAL
- FOOD & BEVERAGE INDUSTRIES
- AEROSPACE & DEFENCE



## **KANAKRATNA STEELAGE PVT LTD**

*Specialist Of High Performance Nickel Alloys*

An ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007  
PED 2014/68/EU & GOVT, RECOGNISED EXPORT HOUSE

### **SALES OFFICE :**

52/52A, Islampura Street Corner, Shop No. 14,  
Nanubhai Desai Road, Mumbai - 400004, Maharashtra, India.

**Tel.:** 022 - 67521234, 67436669 | **Mob. :** +91 97732 97302

**Email :** mukesh@kanakratnasteelage.com

### **REGISTERED OFFICE :**

271/273, Mumbadevi Road, Opposite Mumbadevi Temple,  
Ground Floor, Zaveri Bazar, Mumbai - 400002, Maharashtra, India.

### **FACTORY :**

Plot No. 46-A Taloja Navi Mumbai, Maharashtra, India.

### **WAREHOUSE OFFICE :**

13 Purohit Niwas, Ground Floor, 2nd Carpenter Street, Mumbai - 400004

**MUMBAI**

**DUBAI**

**LONDON**

**CALIFORNIA**

[www.kanakratnasteelage.co.in](http://www.kanakratnasteelage.co.in)