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Mumbai-4000 004. India
Tel 91-22-2380-5700

Leader of Tubes & Pipes



Engineering
Manufacturing
Forging
Machining
Drilling

SATCO CO., LTD.

SATCO CO., LTD.
www.satcokorea.com



SATCO

SATCO CO., LTD.

PRESIDENT'S MESSAGE

The continued success and increase of our clients business is the main goal of **SATCO CO., LTD.** Our mission is to increase value to our clients business by our high quality products.

SATCO knows the future of our company depends on our clients wants and needs.

For this reason, our performance is based on the following principles and work ethics;

- **Added Values**
- **Through Goods**
- **Best Quality**
- **On Time Delivery**
- **Competitive Price**
- **Good Communication**

SATCO confirms that these principles have always been present in our daily activities.

Believing in the future, we want more than to be just part of it.

SATCO is always studying and researching new technologies and processes continually, investing in all aspects of our shop, reinforcing our partnerships with clients, suppliers and employees, performing all our businesses in a socially responsible manner.

Your Reliable Partner!

HISTORY

- Apr. 1999** Established SATCO
- Mar. 2003** Korea Representative of Mousa A. Bahman Est. in Kuwait
- Mar. 2008** Completed Forging Shop
- Oct. 2008** Certificate of Management INNO-BIZ
- Nov. 2008** Awarded a Medal of USD 5 Million for Export
- Sep. 2009** Completed Machining Shop
- Dec. 2009** Achievement USD 10 Million for Export
- Mar. 2010** Korea Representative of International Development Company in UAE
- May. 2010** Registration on TAKREER, UAE (No. 907221)
- Sep. 2010** Registration on SABIC, Saudi Arabia (No. 504528)
- Sep. 2011** Registration on GEA-BGR, India (No. 200176)
- Oct. 2011** Registration on KNPC, Kuwait (No. 277164)
- Apr. 2012** Registration on BOROUGE, UAE (No. 0000003087)
- Aug. 2014** Established Dubai Branch, UAE
- Nov. 2014** Registration on ADMA-OPCO, UAE (No. 1006)
- Feb. 2015** Registration on NIGC (No. GO.112.178254) & KALA NAFT (No. 182749), IRAN
- Apr. 2015** Registration for T/S Forging (HP HEATER) on BHEL-Hyderabad, India (No. 700136)
- Jan. 2016** Registration on KOC, Kuwait (No. VEC-10091502/FL/045/2016)
- Oct. 2016** Registration on ADCO (No. 47576), ADMA-OPCO (No. 11299), UAE
- Oct. 2016** Registration on SABIC, Saudi Arabia (No. CMNJ)
- Jan. 2017** Representative of Ratnadeep in India (Tubes & Pipes)
- Apr. 2017** Renewal PED 2014/68/EU
- May. 2017** Registration on MHPS, Japan
- Apr. 2018** Registration on MAPNA Boiler (No. 4_472), IRAN
- May. 2018** Renewal ISO 9001 : 2015 & 14001 : 2015



Best Quality Control and On Time Delivery

1. TUBES AND PIPES



1) Stainless steel

SIZES

Outer Diameter : 3.00 mm - 219.10 mm

Wall Thickness : 0.40 mm - 20.00 mm

LENGTHS

Length : Upto 30 meters

'U' Tube : Radius 1.1 D to 1 meter

Tubes can be supplied in 600 feet for Diameter below 12.70 mm in coil form.

CONDITIONS

Heat treated | Hard Drawn | Stress Relieved | Bright Annealed

STANDARDS

ASTM A-213, A-249, A-268, A-269, A-270, A-312, A-789, EN10216-5, EN10217-7

Other Standards upon request

Tests

Standard	Product	Tensile	Flattening / Rev. Flattening	Flaring / Flange	Hardness	Hydrostatic	Reverse Bend	Non Destructive Eddy Current Test
A 213	✓	✓	F	Flaring	✓	✓		On request
A 249	✓	✓	F	Flange	✓	✓	✓	On request
A 268	✓	✓	RF	Flange/Flaring	✓	✓		On request
A 269	✓		RF	Flange/Flaring	✓	✓		On request
A 270	✓		RF			✓		On request
A 312	✓	✓	F			✓		On request
A 789	✓	✓	F	Flange/Flaring	✓	✓		On request
EN10216-5	✓	✓	F	Flaring	✓	✓		On request
EN10217-7	✓	✓	F	Flange/Flaring	✓	✓		On request

2) Carbon steel

SIZES

Outer Diameter : 6.00 mm - 219.10 mm

Wall Thickness : 0.5 mm \varnothing 20 mm

LENGTHS

Random Lengths : 4-7 m standard, max 16 m

Fixed Lengths : max 35 m

We also produce 'U' Tube in radius 1.1 D to 1 meter - as per customers' requirements.

CONDITIONS

Heat treated | Hard Drawn | Stress Relieved

STANDARDS

ASTM A-53, A-106, A-179, A-192, A-210, A-213, A-333, A-334, A335,

BS-3059, BS-3602, BS-6323, DIN-17175, DIN-2391

Tests

Standard	Product	Tensile	Flattening	Flaring	Hardness	Hydrostatic	Non Destructive Eddy Current Test
ASTM A 106	✓	✓	✓			✓	On Request
ASTM A 179	✓	✓	✓	✓	✓	✓	On Request
ASTM A 192	✓	✓	✓	✓	✓	✓	On Request
ASTM A 210	✓	✓	✓	✓	✓	✓	On Request
ASTM A 333	✓	✓	✓		Impact/Hardness	✓	On Request
ASTM A 334	✓	✓	✓	✓	Impact	✓	On Request
BS 3059	✓	✓	✓	✓		✓	On Request
BS 6323	✓	✓	✓			✓	On Request
DIN 2391	✓	✓	✓			✓	On Request

2. CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF STAINLESS STEEL



CHEMICAL ANALYSIS										MECHANICAL PROPERTIES			
Grade	C% Max	Si% Max	Mn% Max	P% Max	S% Max	Ni%	Cr%	Mo%	Others	Tensile Strength	Yield Strength	Elongation %	Hardness
										Min. Ksi (Mpa)	Min. Ksi (Mpa)	GL:50mm MN	HRB Max.
TP 304	0.08	1.00	2.00	0.045	0.030	8.0 - 11.0	18.0 - 20.0	-	-	75 (515)	30 (205)	35	90
TP 304H	0.04 - 0.10	1.00	2.00	0.045	0.030	8.0 - 11.0	18.0 - 20.0	-	-	75 (515)	30 (205)	35	90
TP 304L	0.035	1.00	2.00	0.045	0.030	8.0 - 12.0	18.0 - 20.0	-	-	70 (485)	25 (170)	35	90
TP 316	0.08	1.00	2.00	0.045	0.030	10.0 - 14.0	16.0 - 18.0	2.0 - 3.0	-	75 (515)	30 (205)	35	90
TP 316H	0.04 - 0.10	1.00	2.00	0.045	0.030	11.0 - 14.0	16.0 - 18.0	2.0 - 3.0	-	75 (515)	30 (205)	35	90
TP 316L	0.035	1.00	2.00	0.045	0.030	10.0 - 14.0	16.0 - 18.0	2.0 - 3.0	-	70 (485)	25 (170)	35	90
TP 316Ti	0.08	0.75	2.00	0.045	0.030	10.0 - 14.0	16.0 - 18.0	2.0 - 3.0	Ti:5(C+N)-0.70 N-0.10 max	75 (515)	30 (205)	35	90
TP 309S	0.08	1.00	2.00	0.045	0.030	12.0 - 15.0	22.0 - 24.0	-	-	75 (515)	30 (205)	35	90
TP 310	0.08	1.00	2.00	0.045	0.030	19.0 - 22.0	24.0 - 26.0	-	-	75 (515)	30 (205)	35	90
TP 317	0.08	1.00	2.00	0.045	0.030	11.0 - 15.0	18.0 - 20.0	3.0 - 4.0	-	75 (515)	30 (205)	34	90
TP 321	0.08	1.00	2.00	0.045	0.030	9.0 - 12.0	17.0 - 19.0	-	Ti:5(C+N)-0.70	75 (515)	30 (205)	35	90
TP 347	0.08	1.00	2.00	0.045	0.030	9.0 - 13.0	17.0 - 20.0	-	Nb:10(C)-1.10	75 (515)	30 (205)	35	90
S40910	0.03	1.00	1.00	0.040	0.020	0.50 max	10.5 - 11.7	-	Ti:6(C+N) min 0.50 max co0.17 N-0.030	55 (380)	30 (205)	20	95
TP 410	1.08 - 0.15	1.00	1.00	0.040	0.030	0.75 max	11.5 - 13.5	-	-	60 (415)	30 (205)	20	95
TP 430	0.12	1.00	1.00	0.040	0.030	0.75 max	16 - 18.0	-	-	60 (415)	30 (205)	20	90
1.4571	0.08	1.00	2.00	0.040	0.015	10.5 - 13.5	16.5 - 18.5	2.0 - 2.5	Ti:5(C)-0.70	(500-730)	(210)	35	90
1.4306	0.03	1.00	2.00	0.040	0.015	10.0 - 12.0	18.0 - 20.0	-	N-0.11 max	(460-680)	(180)	40	90
1.4401	0.07	1.00	2.00	0.040	0.015	10.0 - 13.0	16.5 - 18.5	2.0 - 2.5	N-0.11 max	(510-710)	30 (205)	35	90
1.4404	0.03	1.00	2.00	0.040	0.015	10.0 - 13.0	16.5 - 18.5	2.0 - 2.5	N-0.11 max	(490-690)	(190)	35	90
1.4541	0.08	1.00	2.00	0.040	0.015	9.0 - 12.0	17.0 - 19.0	-	Ti:5(C)-0.70	(500-730)	(200)	35	90
UNS S31803	0.03	1.00	2.00	0.030	0.020	4.50 - 6.50	21.0 - 23.0	2.50 - 3.50	N-0.08-0.20	90 (620)	65 (450)	25	30 HRC
UNS S32750	0.03	0.80	1.20	0.035	0.020	6.00 - 8.00	24.0 - 26.0	3.00 - 5.00	NO.24-0.32 Cu-0.50	116 (800)	80 (550)	15	32 HRC

3. DIMENSIONS OF SEAMLESS AND WELDED TUBES / PIPES

Nominal Size (In)	O.D. (mm)	5S	5	10S	10	Std/40S	Std/40	80s	XS/80	120	160	XXS
1/8	10.29	-	0.89	1.24	1.24	1.73	1.73	2.41	2.41	-	-	-
1/4	13.72	-	1.24	1.65	1.65	2.24	2.24	3.02	3.02	-	-	-
3/8	17.15	-	1.24	1.65	1.65	2.91	2.91	3.20	3.20	-	-	-
1/2	21.34	1.65	1.65	2.11	2.11	2.77	2.77	3.73	3.73	-	4.78	7.47
3/4	26.67	1.65	1.65	2.11	2.11	2.87	2.87	3.91	3.91	-	5.56	7.82
1	33.40	1.65	1.65	2.77	2.77	3.38	3.38	4.55	4.55	-	6.35	9.09
1 1/4	42.16	1.65	1.65	2.77	2.77	3.56	3.56	4.85	4.85	-	6.35	9.70
1 1/2	48.26	1.65	1.65	2.77	2.77	3.68	3.68	5.08	5.08	-	7.14	10.16
2	60.33	1.65	1.65	2.77	2.77	3.91	3.91	5.54	5.54	-	8.74	11.07
2 1/2	73.03	2.11	2.11	3.05	3.05	5.16	5.16	7.01	7.01	-	9.53	14.02
3	88.90	2.11	2.11	3.05	3.05	5.49	5.49	7.62	7.62	-	11.13	15.24
3 1/2	101.60	2.11	2.11	3.05	3.05	5.74	5.74	8.08	8.08	-	-	16.15
4	114.30	2.11	2.11	3.05	3.05	6.02	6.02	8.56	8.56	11.13	13.49	17.12
4 1/2	127.00	-	-	-	-	6.27	-	9.02	-	-	-	18.03
5	141.30	2.77	2.77	3.40	3.40	6.55	6.55	9.53	9.53	12.70	15.88	19.05
6	168.28	2.77	2.77	3.40	3.40	7.11	7.11	10.97	10.97	14.27	18.26	21.95
8	219.08	2.77	2.77	3.76	3.76	8.18	8.18	12.70	12.70	18.26	23.01	22.22

Dimensions of Imperial standard wire Gauge / Birmingham wire Gauge (mm)

GAUGE	SWG	BWG
1	7.62	7.62
2	7.01	7.21
3	6.40	6.58
4	5.89	6.05
5	5.38	5.59
6	4.88	5.16
7	4.47	4.57
8	4.06	4.19
9	3.66	3.76
10	3.25	3.40
16	1.63	1.65
17	1.42	1.47
18	1.22	1.24
19	1.02	1.07
20	0.91	0.89
21	0.81	0.81
22	0.71	0.71
23	0.61	0.64
24	0.56	0.56
25	0.51	0.51
26	0.46	0.46
27	0.42	0.41
28	0.38	0.36
29	0.35	0.33
30	0.32	0.31

4. TUBES & PIPES TOLERANCE



1) Stainless Steel

Standard	Size Range OD	OD Tolerance	W.T. Tolerance	Fixed Length Tolerance
ASTM A 213	Under 25.40mm	+/-0.10 mm	+20 / -0 %	+3 / -0 mm
Seamless	25.40-38.10mm incl.	+/-0.15 mm	+20 / -0 %	+3 / -0 mm
Boiler, Super	38.10-50.80mm excl.	+/-0.20 mm	+22 / -0 %	+3 / -0 mm
Heater, Heat	50.80-63.50mm excl.	+/-0.25 mm	+22 / -0 %	+5 / -0 mm
Exchanger &	63.50-76.20mm excl.	+/-0.30 mm	+22 / -0 %	+5 / -0 mm
Condenser Tubes	76.20-101.60mm incl.	+/-0.38 mm	+22 / -0 %	+5 / -0 mm
ASTM A 249	Under 25.40mm	+/-0.10 mm	+/- 10.0 %	+3 / -0 mm
Welded Boiler,	25.40-38.10mm incl.	+/-0.15 mm	+/- 10.0 %	+3 / -0 mm
Super Heater,	38.10-50.80mm excl.	+/-0.20 mm	+/- 10.0 %	+3 / -0 mm
Heat Exchanger &	50.80-63.50mm excl.	+/-0.25 mm	+/- 10.0 %	+5 / -0 mm
Condenser	63.50-76.20mm excl.	+/-0.30 mm	+/- 10.0 %	+5 / -0 mm
Tubes	76.20-101.60mm incl.	+/-0.38 mm	+/- 10.0 %	+5 / -0 mm
ASTM A 268 &				
ASTM A 789	Under 12.70mm	+/-0.13 mm	+/- 15.0 %	+3 / -0 mm
Seamless &	12.70-38.10mm excl.	+/-0.13 mm	+/- 10.0 %	+3 / -0 mm
Welded Ferritic	38.10-88.9mm excl.	+/-0.25 mm	+/- 10.0 %	+5 / -0 mm
Stainless Steel Tubes	88.9-139.70mm excl.	+/-0.38 mm	+/- 10.0 %	+5 / -0 mm
ASTM A 269	Under 12.70mm	+/-0.13 mm	+/- 15.0 %	+3.2 / -0 mm
Seamless &	12.70-38.10mm excl.	+/-0.13 mm	+/- 10.0 %	+3.2 / -0 mm
Welded	38.10-88.9mm excl.	+/-0.25 mm	+/- 10.0 %	+4.8 / -0 mm
Tubes	88.9-139.70mm excl.	+/-0.38 mm	+/- 10.0 %	+4.8 / -0 mm
	139.70-203.70mm excl.	+/-0.76 mm	+/- 10.0 %	+4.8 / -0 mm
ASTM A 270	Under 25.40mm	+/-0.13 mm	+/- 12.5 %	+3.2 / -0 mm
Seamless &	25.40-50.80mm excl.	+/-0.20 mm	+/- 12.5 %	+3.2 / -0 mm
Welded Sanitary	50.80-76.20mm excl.	+/-0.25 mm	+/- 12.5 %	+3.2 / -0 mm
Tubes	76.20-101.60mm incl.	+/-0.38 mm	+/- 12.5 %	+3.2 / -0 mm
ASTM A 312			Min.Wall+12.5%	
Seamless &	10.29-48.30mm excl.	+0.40 / -0.80 mm	Under nominal	+6 / -0 mm
Welded	48.30-114.30mm excl.	+0.80 / -0.80 mm	Wall specified	+6 / -0 mm
Pipes	114.30-219.08mm excl.	+1.60 / -0.80 mm	+/- 12.5 %	+6 / -0 mm

2) Carbon Steel

Standard	Size Range OD	OD Tolerance	W.T. Tolerance	Fixed Length Tolerance
ASTM A 106	1/8" - 1-1/2" NB incl	+/-0.40 mm	-12.5 %	+ / - 5 %
Pipes for high	1-1/2" - 4" NB incl	+/-0.80 mm		
Temperature service	4" - 8" NB incl	+1.60 / -0.80 mm		
ASTM A 179	Under 25.40mm	+/-0.10 mm	+/- 20.0 %	+3 / -0 mm
Seamless Low Carbon	25.40-38.10mm incl.	+/-0.15 mm	+/- 20.0 %	+3 / -0 mm
H.E.& Condenser Pipes	38.10-50.80mm excl.	+/-0.20 mm	+/- 22.0 %	+3 / -0 mm
ASTM A 192	50.80-63.50mm excl.	+/-0.25 mm	+/- 22.0 %	+5 / -0 mm
Seamless Carbon	63.50-76.20mm excl.	+/-0.30 mm	+/- 22.0 %	+5 / -0 mm
Steel Boiler Tubes	76.20-101.60mm incl.	+/-0.38 mm	+/- 22.0 %	+5 / -0 mm
ASTM A 210	101.6-190.5mm incl.	+0.38 / -0.64mm	+/- 22.0 %	+5 / -0 mm
Seamless Medium				
Carbon				
Steel Boiler & H.E. Tubes				
BS 3059		+/-0.5% min		
Steel Boiler &	Part I CF & Part II S1	>+/-0.10 mm	+ / - 7.50 %	+3 / -0 mm
Super Heater Tubes	Part II S2	+/-0.75% min		Upto 6 mtr.
		>+/-0.30 mm	+ / - 10 %	
DIN 2391	Upto 29.97 mm	+/-0.076 mm	+ / - 10 %	
Seamless & Precision	29.97 - 40.64mm	+/-0.152 mm	+ / - 10 %	
Steel Tubes	39.98 - 50.01mm	+/-0.20 mm	+ / - 10 %	
	50.01 - 60.00mm	+/-0.249 mm	+ / - 10 %	
BS 6323(Part4)	Upto 30 mm	+/-0.10 mm		+ 2 / - 0 mm
Seamless Tubes for	31 - 50 mm	+/-0.15 mm		(upto 500 mm)
Automobiles, mechanical	51 - 70 mm	+/-0.20 mm		+ 3 / - 0 mm
& general engg. purpose	71 - 90 mm	+/-0.25 mm		(upto 2000 mm)
	91 - 110 mm	+/-0.30 mm		+ 5 / - 0 mm
	111 - 130 mm	+/-0.35 mm	+ / - 10 %	(upto 5000 mm)
	131 - 160 mm	+/-0.45 mm	(min +/- 0.10mm)	+ 10 / - 0 mm
				(upto 10000 mm)

5. INSPECTION AND TESTING



Tensile Test

This is the destructive test carried out to obtain the mechanical test values of finished products.

Hardness Testing

Hardness tester is used for measuring hardness values of Tubes & Pipes

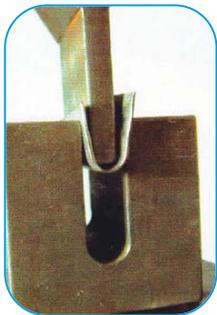
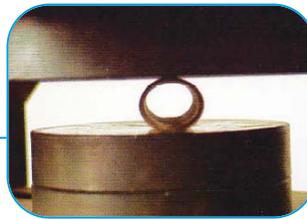


Flaring & Flanges Test

Flaring test is carried out to check ductility of the material & Flange test is carried out to check the material under deformation.

Flattening

Flattening test is carried out to check the material under compression.



Reverse Bending

Reverse Bend Test is done to test the welding strength of Welded Tubes / Pipes.

Microstructure Analysis

This test involves grain structure examination as per specification.



Special Test

IGC Pr A, E & C Test are carried out.



Visual & Dimension Inspection

Inspection is carried out to detect any dents, surface defect or scratch on the surface of tube. The dimensional inspection is carried out with calibrated measuring instruments for product dimensions are within tolerance requirement.



Dye Penetrant Test

Dye Penetrant test is carried out on bend portion to detect cracks, flaws or any type of defects.

Surface Roughness Tester

Test is carried out for measuring roughness upto 350 / um. (Make Mitutoyo SJ-301, Japan)

6. MARKING AND PACKING



Marking

- Finished tubes / pipes are marked with electric etching / electronic inkjet marking machine.
- Each tube / pipe is marked with "Manufacturers Logo, Name, Size, Specification, Grade, Heat No."



Packing

- Tubes / pipes are wrapped with plastic / HDPE / Hessian cloth as per the customer's requirements.
- Wooden Box / Wooden Crate packing is also provided as per customer's requirements.
- 'U' tubes are packed in specially designed wooden boxes.



Our plants are approved by leading third party inspection agencies and consultants as listed below:

- | | | | | | | | | | |
|--------------------------------|-------------------------------|---------------------|-----------------|---------------------|----------------------|-----------|---------|---------|--------|
| • Lloyds | • BVIS | • DNV | • SGS | • TUV | • SABIC | • EIL | • CEIL | • IBR | • NTPC |
| • PDIL | • BHEL | • TOYO | • UHDE | • NPCIL | • ABS | • IIB | • Linde | • MECON | • BARC |
| • Reliance | • RITES | • Velosi | • AKPG | • SIGNATE | • SAIL-BSP | • BECHTEL | • TDC | • IFFCO | |
| • FLSmith | • GSFC | • GNFC | • ISC Pvt. Ltd. | • A-Four Associates | • Germanischer Lloyd | | | | |
| • Indian Registers of Shipping | • Electromech Eng. Enterprise | • TATA Project Ltd. | | | | | | | |
- * Materials manufactured under Customer's Representative or their authorized inspection agency.

Major sectors of application

- | | | | | |
|--------------|-----------------|--------------------------|-----------------------|--------------------|
| • HP Heaters | • LP Heaters | • Condensers | • Heat Exchangers | • Pressure Vessels |
| • Boilers | • Control lines | • Hydraulic Applications | • Sensor & Compressor | |

Major Users

- | | | | | |
|--------------------|---------------------|------------------------|-------------------|-----------------------|
| Industries like | • Power Plants | • Petrochemical Plants | • Chemical Plants | • Fertilizers |
| • Refineries | • Textile Machinery | • Defence | • Steel Plants | • Automobile Industry |
| • Locomotive | • Dairy | • Food Industries | • Beverages | • Ornamentals |
| • Sugar Industries | | | | |
| • Pharmaceuticals | | | | |

Our products are

Extensively used for conveyance of fluids intended for critical high temperature and general corrosion service applications. Used under similar service conditions in heat transfer equipments like boilers, super heaters, heat exchangers, condensers etc. General Engineering and Process Instrumentation

While sending the enquiry, please furnish the following details

- | | | |
|--|-------------------------------|-------------------------|
| • Size 'OD & Wall Thickness' OR 'OD & ID' OR 'ID & Wall Thickness' OR NPS/DN & Schedule. | • Specification | • Material Grade |
| • Length (Random 4-7m or fixed) | • Type of Packing | • End use / Application |
| • Quantity per size | • Additional Testing required | • Delivery required. |
| • Third Party Inspection if required | | |
| • Quantity Variation Allowed. | | |

