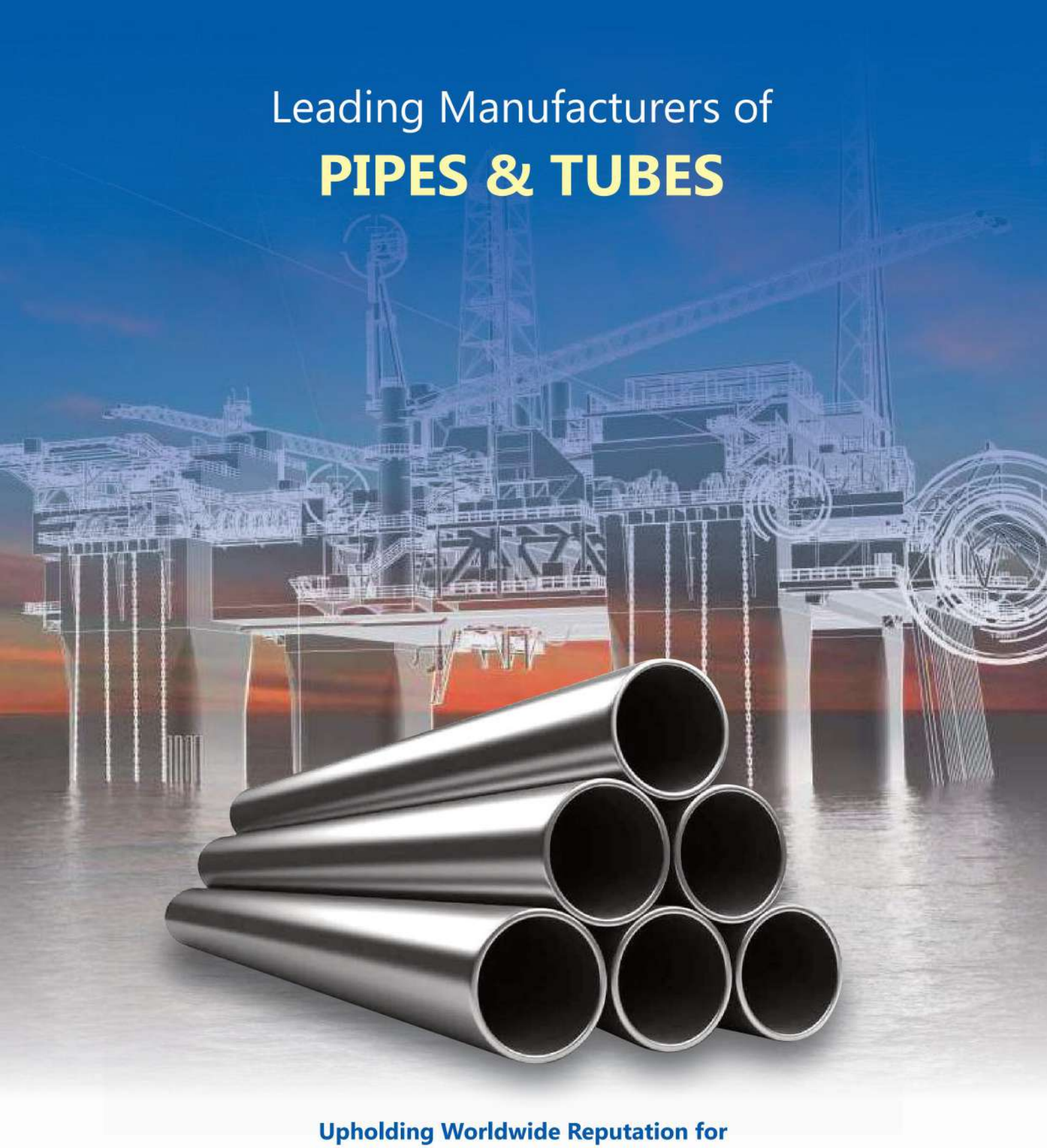
Leading Manufacturers of

PIPES & TUBES



Upholding Worldwide Reputation for

QUALITY & SERVICE

SEMINOX®

PIPES & TUBES PVT. LIMITED

COMPANY PROFILE

Seminox Pipes & Tubes is one of the leading Manufacturer & Exporter of premium quality **Stainless Steel and High Nickel Alloys Seamless & Welded Pipes, Tubes, and U-Tubes.** Led by young and visionary professionals we at Seminox believe in providing finest quality with on time delivery and satisfactory after sales service. Seminox is a recognized Indian startup and has obtained all-important accreditation like **ISO 9001:2015, 14001:2015 and 45001:2018, PED 2014/68/EU.**

At Seminox we aim to become the pioneer of the piping industry, our deep routed network aids in providing prime quality products comprising various standards & material at competitive prices to deliver customer satisfaction.

Seminox Pipes & Tubes is one of the Leading Manufacturer & Exporter of Stainless Steel and high-nickel alloys, high-performance alloys. These alloys are highly engineered to offer a superior combination of heat resistance, high-temperature corrosion resistance, toughness and strength and are used in the world's most technically demanding industries and applications.

Seminox Pipes & Tubes Offering Extensive inventories in Heat Resistant, Corrosion Resistant, and High Temperature Alloys. We supply advanced materials that are efficient, long lasting and recyclable. Seminox each product undergoes a series of comprehensive mandatory and customer specified supplementary tests at its in-house testing facilities by its qualified personnel in accordance with various International Standards / Specifications.

The list of Third Party Inspection Agencies [TPIA], with whom Seminox have had privilege to carry our detailed stage- wise inspection & testing, reads like 'Who's Who' in the Directory of TPIA's. Inspection by Customer's own Surveyors can also be offered.

TOTAL QUALITY MANAGEMENT

Seminox Pipes & Tubes each product undergoes a series of comprehensive mandatory and customer specified supplementary tests at its in-house testing facilities by its qualified personnel in accordance with various International Standards / Specifications.

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Inspection & Testing Offered By Us Are As Follows :

Non Destructive Testing

- Eddy Current Test
- Liquid Penetration Test
- Visual & Dimensional Inspection
- Hydro Testing
- Pneumatic Test
- Positive Material Identification

Destructive Testing

- Tensile Testing (Proof Load, UTS & % Elongation)
- Chemical Testing- Product analysis through Spectrometer
- Rockwell Hardness Testing
- Flattening/Reverse Flattening Test
- Guided Bend/Reverse Bend Test Bend
- Flaring/Flange Test
- Micro/Macro Examination Micro
- Inter Granular Corrosion test- IGC
- (Practice A, E & C (ASTMA-262)

SEMINOX®
PIPES & TUBES PVT. LIMITED

We are one of the most trusted Manufacturers offering finest range of High Nickel Alloy, Stainless Steel, Duplex Steel Pipes & Tubes. Used in different industries for diverse applications, these pipes can be available in standard as well as customized dimensions as per the requirement. These pipes are appreciated for their sturdy and precise construction. We are known for offering our product range at reasonable prices and delivering within given time frame.

EXTENSIVE RANGE OF MATERIALS THAT WE OFFER

STAINLESS STEEL : ASTM / ASME SA 312Gr. TP 304, 304L, 304H, 309S, 309H, 310, 310H, 310S, 316, 316L, 316Ti, 316H, 316LN, 317, 317L, 321, 321H, 347, 347H, 409L, 410, 430, 430F, 904L

SUPER & DUPLEX STEEL : ASTM / ASME SA 790 UNS No.: 31803 / 32760 / 32750 / 2205 / 329

NICKEL ALLOYS :

ASTM / ASME SB 161/B725/B730 UNS 2200 (Nickel. 200 & 201)
ASTM / ASME SB 165/B725/B730 UNS 4400 (Monel 400 & 500)
ASTM / ASME SB 729/B464/B468 UNS 8020 (Alloy 20/20 CB 3)
ASTM / ASME SB 423/B407 UNS 800 / 800H / 800HT
ASTM / ASME SB 423/B705/B704 UNS 8825 (Inconel 825)
ASTM / ASME SB 167/B517/B516 UNS 6600 (Inconel 600)
ASTM / ASME SB 444/B705/B704 UNS 6625 (Inconel 625)
ASTM / ASME SB 622/B619/B622 UNS 10276 (Hastelloy C276)

TYPES : Round, Square, rectangle
SIZE : 1/4" NB to 24" NB (seamless) / ½"to 72" welded
WALL THICKNESS : Sch. 5s to Sch. XXS

SEMINOX®
PIPES & TUBES PVT. LIMITED

Seminox Stainless Steel Seamless Pipes / Tubes division consist of a number of Cold Pilgering mills, Draw benches, Heat treatment furnaces and all necessary testing equipments to produce high quality tubes & pipes confirming to various International Standards. The Pipes / Tubes are supplied according to appropriate standards as well as customer specifications in a large variety of Stainless Steel grades and dimensions. Specific requirements n execution, tolerances, lengths, mechanical and corrosion properties are offered on request.

STAINLESS STEEL **SEAMLESS** TUBULAR PRODUCTS

PRODUCT RANGE :

Products	Size Range	Thickness	Specification	Grades
Tubes	6.35 mm to 101.6 mm OD	0.50 mm to 5.0 mm	ASTM A 213. A 269 A 270 'U" Tubes as per Customers drawing	TP 304, 304L, 304H, 316, 316L 316H, 321, 316Ti, 310S, 317, 317L, 347, 347H, 321H, 904L, 310H
Pipes	1/4 " NB to 12" NB	upto Sch XXS	ASTM A 312	

SALIENT FEATURES :

- Pipe upto 12" NPS. Sch. XXS without addition of filler wire as per ASTM A-312 Specification
- Condenser Tubes and Low Pressure Feed Water Heater tubes with On-line Bright Annealing and Eddy Current Testing Facilities
- Automobile Exhaust Tubes
- Competence to produce tubes with precision tolerance
- Capability to produce Heat Exchanger Tubes upto a developed lenght of 30 meters
- Bright Annealed Tubes with inside roughness of 0.5 Microns for hygiene applications
- All testing facilities in-house to meet International Standards

SEMINOX®
PIPES & TUBES PVT. LIMITED

Seminox Stainless Steel WELDED (Round, Square & Rectangular) Pipes / Tubes division consist of a number of Tube mills with square & Rectangular track , Cold finishing section, Heat treatment furnaces, Annealing & Pickling facilities, U-bending facility and testing facilities to manufacture high quality products confirming to International standards.

The Tubes / Pipes are supplied according to appropriate standards as well as customer specifications in a large variety of Steel grades, dimensions, tolerances, lengths, mechanical and corrosion properties are offered on request.

STAINLESS STEEL **WELDED** TUBULAR PRODUCTS

PRODUCT RANGE :

Products	Size Range	Thickness	Specification	Grades
Tubes	6.35 mm to 101.6 mm OD	0.50 mm to 5.0 mm	ASTM A 249, A 268, A 269. A 270. A 554, A 688, A 1016 'U" Tubes as per Customers drawing	TP 304, 304L, 304H, 316, 316L 316H, 321, 316Ti, 310S, 317, 317L, 347, 347H, 904L, 321H, 310H
Pipes	½ " NB to 60" NB	0.5 mm upto Sch XXS	ASTM A 312, A 554, ASTM A 358, A 928 Class 1,2,3,4,5 -100 % RT	

SEMINOX®
PIPES & TUBES PVT. LIMITED

DUPLEX / SUPER DUPLEX TUBULAR PRODUCTS

DUPLEX

Duplex is a stainless steel made from a mixture of Austenite and Ferrite phases. Like most austenitic stainless steels, Duplex has a strong resistance to corrosion similar to those of a type 304 and 316. Unlike similar steels, Duplex also displays an improved resistance to localised corrosion, particularly pitting, crevice corrosion and stress corrosion crackling because of Duplex has a lower nickel and molybdenum content than other austenitic stainless steels.

Due to its special qualities, in some cases the strength of Duplex steel can be upto double that of the most commonly used grades of stainless steel. Duplex becomes brittle at extreme temperatures so its uses is normally restricted to a max. temperature of 300 deg. Duplex also shows signs of embrittlement at -50 degrees.

USES

1. Pipes for production and transportation of Oil & Gas
2. Structural and Mechanical components
3. Heat Exchangers / Cooling Pipes
4. Cargo vessels & containers
5. High strength wiring / High strength wiring

SUPER DUPLEX

Super Duplex is a stainless steel mainly used in Oil & Gas applications. Due to a very high tensile strength, Super Duplex has better resisitance to erosion, corrosion crackling and corrosion fatigue than conventional austenitic stainless steels.

Its high concentration of chromium and molybdenum content also gives Super Duplex a high resistance to acids that causess pitting and crevice corrosion. Because Super Duplex is an austenitic ferritic iron chromium-nickel alloy with molebdenum addition, it is also used for industrial processes where high strength and corrosion resistance are essential.

Structural and mechanicl components, Heat exchangers, utility and industrial systems, cargo vessels and high strength wiring solutions are ideal uses for it.

PRODUCT RANGE :

Products	Size Range	Thickness	Specification	Grades
Duplex Tubes / Pipes	½"to 10: NB	Upto Sch XXS	ASTM A 789, A 790	UNS S31803, UNS S32205
Super Duplex Tubes / Pipes	½ " NB to 10" NB	Upto Sch XXS	ASTM A 789, A 790	UNS S32750, UNS S32760, 329

SEMINOX®
PIPES & TUBES PVT. LIMITED

The Stainless Steel Heat Exchanger Tube doesn't easily dissociate or get damaged due to extreme pressures and temperatures they are induced towards. The robust modules can be designed as U-tube, fixed sheet and floating heat exchanger. The versatile Stainless Steel Heat Exchanger Tubing is commonly a feature in Pressurized vessel grades, Chemical processing systems, Oil and gas production equipment.

They are also seen in condensing gases, evaporating liquids, and cooling fluids. Our institution is a Stainless Steel Heat Exchanger Tube Manufacturer In India who have a wide stock of inventory of different tubes that can be designed in an array of shapes and sizes. These tubes are quality assured and produced with the best raw materials and latest technology.

STAINLESS STEEL SEAMLESS HIGH PRECISION & **HEAT EXCHANGER TUBES**

OUTSIDE DIAMETER	: Range 6 mm to 101.6 mm
WALL THICKNESS	: Range 0.70 mm to 8.0mm
LENGTH	: As per Requirement. Maximum up to 24 Meter long.
U- TUBES	: As per Customer's Drawing, Developed length up to 36 Meter.
GRADES	: 304/L/H/LN, 316/L/H/LN/Ti, 309, 310/L/H/S, 317/L/H, 321/H, 347/H, 405, 409/L, 410, 430/Ti, 436, 439, 904L UNS S31803, UNS S2205, UNS S32750, UNS S32760, 329
SPECIFICATION	: Seamless - ASTM A-213, A-268, A-269, A-270, A-789, EN 10216-5 Welded - ASTM A-249, A-268, A-269, A-270, A-554, A-688, A-789, A-803, EN-10217-7
SUPPLY CONDITION	: Solution-annealed, pickled and passivated, Bright Annealed

APPLICATION : **Heat Exchangers, Pressure Vessels, Chemical and Fertilizer, Marine Equipments, Refinery and Petrochemical, Process Industry, Dairy / Pharmaceutical Industry, Nuclear Power Generation, Automotive, Aerospace**

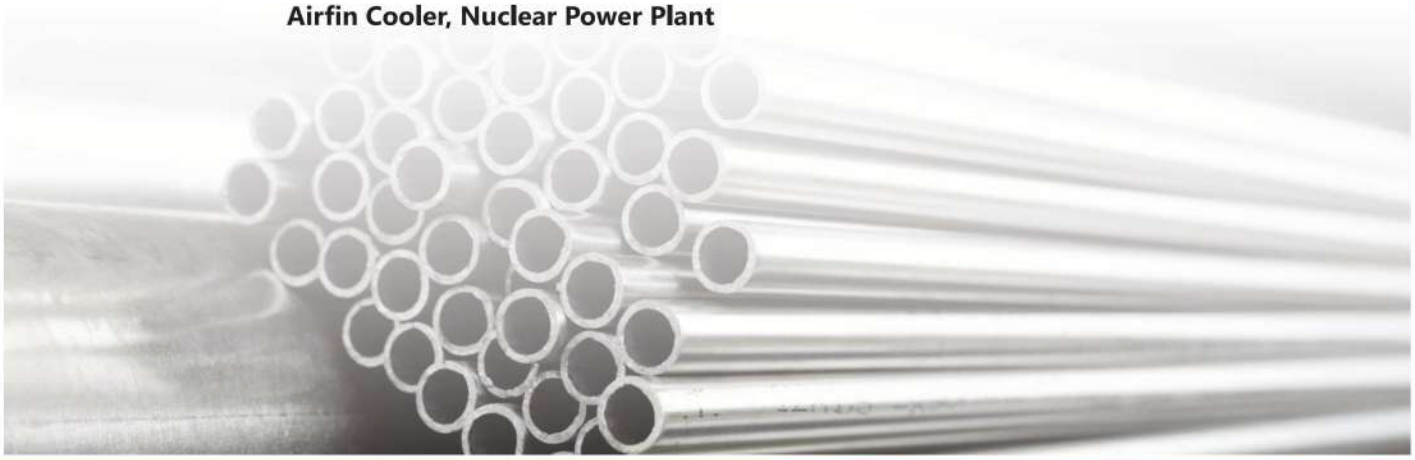
SEMINOX®
PIPES & TUBES PVT. LIMITED

Stainless Steel Seamless 'U' Tubes are made from quality seamless hollows or obtained from trustworthy vendors as per the needs of our clients. Seamless hollows of our SS U Tubes are made up of by using accurate tooling that gives smooth surfaces and perfect dimensions. The newest kind of 'U' bending machine is used for the meticulousness cold bending of Seamless tubes. In particular prepared fixtures and jigs are used to make sure three- dimensional accurateness for 'U' bend tubes. Meanwhile, Stainless Steel Seamless U Tubes are being carried out for all kinds of Heat Exchangers, Boilers, and Condenser applications.

STAINLESS STEEL SEAMLESS **'U'-Tubes**

OUTSIDE DIAMETER : 12.70 mm to 50.80 mm
WALL THICKNESS : 0.89 mm to 5.00 mm
GRADES : TP-304, 304L, 304H, 304N, 304LN 316, 316L, 316H, 316Ti, 316N, 316LN, 310, 317, 317L, 321, 321H, 347, 347H
UNS S 31260, 31803, 32205, 32304, 32750, 32760
TP- 405, 410
SPECIFICATION : ASTM, ASME, DIN EN, JIS (JAPAN), NF (AFNOR) & Drawing as per customer's requirements.
LENGTH : Up to 30mtr long

APPLICATION : **LP / HP Heaters, Fertilizer, Power Plant, Petrochemical & Refinery**
Airfin Cooler, Nuclear Power Plant



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PIPES & TUBES PVT. LIMITED

CHEMICAL COMPOSITION OF STAINLESS STEEL

CHEMICAL COMPOSITION												
Grade	C	Mn	P	S	Si	Cr	Ni	Mo	N	Ti	Cu	Others
304	0.080	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	-	-	-	-	-
304L	0.035	2.00	0.045	0.030	1.00	18.0-20.0	8.0-13.0	-	-	-	-	-
304H	0.04-0.10	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	-	-	-	-	-
304LN	0.035	2.00	0.045	0.030	1.00	18.0-20.0	8.0-12.0	-	0.10-0.16	-	-	-
309S	0.080	2.00	0.045	0.030	1.00	22.0-24.0	12.0-15.0	0.75	-	-	-	-
310S	0.080	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	0.75	-	-	-	-
310H	0.04-0.10	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	-	-	-	-	-
316	0.080	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0	-	-	-	-
316L	0.035	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0	-	-	-	-
316H	0.04-0.10	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0	-	-	-	-
316LN	0.035	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0	0.10-0.16	-	-	-
316Ti	0.080	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.0-3.0	0.10	5x(C+N)-0.70	-	-
317	0.080	2.00	0.045	0.030	1.00	18.0-20.0	11.0-14.0	3.0-4.0	-	-	-	-
317L	0.035	2.00	0.045	0.030	1.00	18.0-20.0	11.0-15.0	3.0-4.0	-	-	-	-
321	0.080	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	-	0.10	5x(C)-0.70	-	-
321H	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	-	-	4x(C)-0.60	-	-
347	0.080	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0	-	-	-	-	Cb - 10X(C)-1.0
347H	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0	-	-	-	-	Cb - 8x(C)-1.0
904L	0.020	2.00	0.04	0.030	1.00	19.0-23.0	23.0-28.0	4.0-5.0	0.10	-	1.0-2.0	-

FERRITIC												
409	0.080	1.000	0.045	0.045	1.00	10.5-11.75	0.50	-	-	6xC-0.75	-	-
410	0.150	1.00	0.040	0.030	1.00	11.5-13.5	0.75	-	-	-	-	-
439	0.070	1.00	0.040	0.030	1.00	17.0-19.0	0.050	-	-	-	0.040	-

DUPLEX & SUPER DUPLEX												
2205	0.030	2.00	0.030	0.020	1.00	4.5-6.5	22.0-23.0	3.0-3.5	0.14-0.20	-	-	-
31803	0.030	2.00	0.030	0.020	1.00	4.5-6.5	21.0-23.0	2.5-3.5	0.08-0.20	-	-	-
255	0.040	1.50	0.040	0.030	1.00	4.5-6.5	24.0-27.0	2.9-3.9	0.10-0.25	-	1.5-2.5	-
32750	0.030	1.20	0.035	0.020	0.80	6.0-8.0	24.0-26.0	3.0-5.0	0.24-0.32	-	0.50	-
32760	0.050	1.00	0.030	0.010	1.00	6.0-8.0	24.0-26.0	3.0-4.0	0.20-0.30	-	0.50	W-0.50-1.0 40 Mn%Cr+3.3 x %Mo+16 x %N)

SEMINOX®
PIPES & TUBES PVT. LIMITED

STAINLESS STEEL PIPE DIMENSIONS AS PER ASTM & WEIGHT/KG.PER MTR. (ANSI B 36.19 - 1965)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule 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	1¼	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	1½	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	2½	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	-	-
650	26	660.4	-	-	7.92	129.40	9.53	155.32	12.70	205.97	-	-	-	-
700	28	711.2	-	-	7.92	139.47	9.53	167.44	12.70	222.13	-	-	-	-
750	30	762.0	6.35	120.15	7.92	149.55	9.53	179.56	12.70	238.28	-	-	-	-
800	32	812.8	-	-	7.92	159.62	9.53	191.69	12.70	254.44	-	-	-	-
850	34	863.6	-	-	7.92	169.64	9.53	203.74	12.70	270.50	-	-	-	–
900	36	914.4	-	-	7.92	179.77	9.53	215.93	12.70	286.75	-	-	-	-

SEMINOX®
PIPES & TUBES PVT. LIMITED

TECHNICAL INFO OF NICKEL BASED ALLOYS

U.S.A. / GROSSBRITAINNIE U.S.A. / GRANDE-BRETAGNE U.S.A. / GREAT BRITAN													
Analyses	Analyses Composition												
Handelsbezeichung Designation Commercial Commercial designation	C%	Co%	Cr%	Mo%	Ni%	V%	W%	Ai%	Cu%	Nb/Cb Ta%	Ti%	Fe%	Sonstige Autres -Other %
Monel 400	0.12	-	-	-	65.0	-	-	-	32.0	-	-	1.5	Mn 1.
Monel 401	0.10	-	-	-	43.0	-	-	-	53.0	-	-	0.75	Si 0.25;Mn z25
Monel 404	0.15	-			52.0-57.0	-	-	0.05	rest/bal	-	-	0.50	Mn 0.10; Si 0.10;So.024
Monel 502	0.10	-	-	-	63.0-17.0	-	-	2.5-3.5	rest/bal	-	0.50	2.0	Mn 1.5;Si:So.010
Monel k 500	0.13	-	-	-	64.0	-	-	2.8	30.0	-	0.60	1.0	Mn 0.8
Monel B	0.10	1.25	0.60	28.0	rest/bal	0.30	-	-	31.0	-	-	1.2	Mn1.0;So,0.04
Hastelloy B2	0.02	1.0	1.0	26.0-30.0	rest/bal	-	-	-	-	-	-	2.0	Mn1.0:Si 0.10
Hastelloy C	0.07	1.25	16.0	17.0	rest/bal	0.30	40	-	-	-	-	5.75	Mn 1.0:Si 0.70
Hadselloy C4	0.015	2.0	14.0-17.0	14.0-17.0	rest/bal	-	-	-	-	-	0.70	3.0	Mn1.0;Si 0.70
Hastelloy C276	0.02	2.5	140-16.5	15.0-17.0	rest/bal	0.35	3.0-4.5	-	-	-	-	4.0-7.0	Mn 1.0;Si 0.05
Incoloy 800	0.04	-	21.0	-	32.0	-	-	0.3	-	-	0.4	45.0	-
Incoloy 801	0.05	-	20.5	-	32.0	-	-	-	-	-	1.1	45.0	-
Incoloy 802	0.35	-	21.0	-	32.0	-	-	0.6	-	-	0.7	45.0	-
Incoloy 804	0.05	-	29.5		41.0	-	-	0.3	-	-	0.6	25.4	-
Incoloy 805	0.12	-	7.5	0.50	36.0	-	-	-	0.10	-	-	rest/bal	Mn 0.60;Si 0.50
Incoloy 810	0.25	-	21.0	-	32.0	-	-	-	0.50	-	-	rest/bal	Mn 0.90; Si 0.80
Incoloy 825	0.04	-	21.0	3.0	42.0	-	-	-	2.0	-	1.0	30.0	-
Incoloy 901	0.05	-	12.5	6.0	rest/bal	-	-	-	-	-	2.9	34.0	Mn 0.24;0.12;00.015
Incoloy 903	0.02	15.0	-	-	38.0	-	-	0.7	-	Nb 3.0	1.4	41.0	-
Incoloy 904	0.02	14.0	-	-	33.0	-	-	-	-	-	1.7	50.0	-
Incoloy 600	0.05	-	15.5	-	75.0	-	-	-		-	-	8.0	-
Incoloy 601	0.05	-	23.0	-	60	-	-	1.4	-	-	-	14.0	-
Incoloy 610	0.20	-	15.5	-	rest/bal	-	-	-	0.50	Nb 1.0	-	9.0	Mn0.90;Si 2.0
Incoloy 617	0.07	12.5	22.5	9.0	54.0	-	-	1.0	-	-	-	-	-
Incoloy 625	0.05	-	21.5	9.0	61.0	-	-	0.60	-	Nb 3.65	0.60	2.5	Mn 05;Si 0.50
Incoloy671	0.07	12.5	22.5	9.0	51.0	-	-	-	-	-	0.35	-	-
Incoloy 700	0.12	28.5	15.0	3.75	46.0	-	-	3.0	0.05	-	2.20	0.70	Mn 0.10;Si 0.30
Incoloy 702	0.04	-	15.6	-	rest/bal	-	-	3.4	0.10	-	0.70	0.35	Mn 0.05; Si 0.20
Incoloy 705	0.30	-	15.5	-	rest/bal	-	-	-	0.50	-	-	8.0	Mn 0.90; Si 5.5

CHEMICAL COMPOSITION OF TITANIUM / NICKEL BASE ALLOYS

Grade	UNS Designation	C % Max	Mn % Max	P % Max	S % Max	Si% -	Ni %	Co %	Cu %	Ag%	Fe %	Pb %	Zn % Max	N %	Ti % Max	H % Max	O %
70/30 Cu-Nu	C 71500	0.05	1.0	0.02	0.02	-	29.0-33.0	-	-	-	0.40-1.0	0.02	0.50	-	-	-	-
90/10 Cu-Ni	C 70600	0.05	1.0	0.02	0.02	-	9.0-11.0	-	-	-	1.0-1.8	0.02	0.50	-	-	-	-
Titanium Gr. 2	R 50400	0.08	0.03	-	-	-	-	-	-	-	0.30	-	-	-	-	-	0.25
Titanium Gr. 1	R 50250	0.08	0.03	-	-	-	-	-	-	-	0.20	-	-	-	-	0.015	0.18
Type 17-4PH	-	0.07	1.00	0.04	0.03	1.00	3.00-5.00	3.00-5.00	0.15-0.45	-	-	-	-	-	-	-	-
Nickel 200	2200	0.15	0.35	-	0.01	0.35	99.0	-	-	-	0.40	-	-	-	-	-	-
Nickel 201	2201	-	0.35	-	0.01	0.35	99.0	-	0.25	-	0.40	-	-	-	-	-	-

SEMINOX®
PIPES & TUBES PVT. LIMITED

STAINLESS STEEL TUBING SERIES

Wall Thickness in mm / Wall Thickness in mm / Bwg	0.711 22 Swg / 0.711 22 Bwg	0.914 20 Swg / 0.889 20 Bwg	1.219 18 Swg / 1.245 18 Bwg	1.626 16 Swg / 1.651 16 Bwg	1.829 15 Swg / 1.829 15 Bwg	2.032 14 Swg / 2.108 14 Bwg	2.612 12 Swg / 2.769 12 Bwg	3.251 10 Swg / 3.404 12 Bwg
O.D. in mm	Weight in kg / mt.							
6.35 / 6.32	0.100 / 0.100	0.124 / 0.121	0.155 / 0.158	0.191 / 0.193	0.205 / 0.205			
10.00 / 10.00	0.165 / 0.165	0.208 / 0.202	0.268 / 0.272	0.340 / 0.340	0.374 / 0.374	0.405 / 0.416	0.482 / 0.501	0.549 / 0.561
12.70 / 12.70	0.213 / 0.213	0.269 / 0.262	0.350 / 0.357	0.450 / 0.456	0.497 / 0.497	0.542 / 0.558	0.659 / 0.687	0.768 / 0791
15.87 / 15.87	0.270 / 0.270	0.342 / 0.333	0.447 / 0.455	0.579 / 0.587	0.642 / 0.642	0.703 / 0.726	0.866 / 0.907	1.026
19.05 / 19.05	0.326 / 0.326	0.414 / 0.404	0.543 / 0.554	0.708 / 0.718	0.787 / 0.787	0.865 / 0.893	1.073 / 1.127	
23.00 / 23.00		0.505 / 0.491	0.664 / 0.677	0.869 / 0.881	0.968 / 0.968	1.065 / 1.101	1.331 / 1.400	
25.40 / 25.40		0.560 / 0.545	0.737 / 0.752	0.966 / 0.980	1.078 / 1.078	1.187 / 1.227	1.488 / 1.567	
31.75 / 31.75			0.930 / 0.949	1.225 / 1.242	1.368 / 1.368	1.510 / 1.562	1.903 / 2.006	
38.10 / 38.10			1.124 / 1.147	1.483 / 1.504	1.658 / 1.658	1.832 / 1.879	2.317 / 2.446	
44.45 / 45.00			1.334 / 1.362	1.763 / 1.789	1.974 / 1.974	2.183 / 2.260	2.768 / 2.923	
50.80 / 50.80			1.512 / 1.544	1.999 / 2.029	2.239 / 2.239	2.477 / 2.566	3.147 / 3.325	
63.50 / 63.50			1.900 / 1.940	2.518 / 2.555	2.820 / 2.820	3.123 / 3.123	3.976 / 3.976	
76.20 / 76.20				3.035 / 3.080	3.404 / 3.404	3.768 / 3.905	4.805 / 5.083	
88.90 / 88.90				3.551 / 3.605	3.986 / 3.986	4.413 / 4.574	5.635 / 5.962	
101.60 / 101.60				4.068 / 4.130	4.567 / 4.567	5.058 / 5.243	6.464 / 6.842	

SEMINOX®
PIPES & TUBES PVT. LIMITED

EN STANDARD

EUROPEAN NORMS / EN-STAINLESS STEEL STANDARDS

EN 10216-5	Seamless steel tubes for pressure purposes. Stainless steel tubes
EN 10294-2	Hollow bars for machining. Stainless steels with specified machinability properties
EN 10297-2	Seamless circular steel tubes for mechanical and general engineering purposes. Stainless steel
DIN 17456	Seamless circular stainless steel tubes with general quality requirements
DIN 17458	Seamless circular austenitic stainless steel tubes subject to special requirements
DIN 17459	Seamless circular high-temperature austenitic steel tubes
DIN 28180-85	Seamless steel tubes for tubular heat-exchangers
NF A 49-117	Steel tubes. Seamless plain end tubes for pipelines and other uses. Ferritic and austenitic stainless steels
NF A 49-217	Steel & Seamless tubes for heat-exchangers. Stainless ferritic, austenitic and ferritic-austenitic steel grades
NF A 49-317	Steel tubes. Seamless steel plain-end mechanical tubing. Austenitic stainless steel

GOST-STAINLESS STEEL STANDARDS

GOST 10498-82	Specific thin-walled corrosion resistant seamless steel tubes
GOST 14162-79	Small-sized (capillary) steel pipes
GOST 19277-73	Seamless steel tubes for oil and fuel lines
GOST 9940	Hot-finished seamless tubes of corrosion resistant steel grades
GOST 9941	Cold-finished and warm-finished seamless tubes of corrosion resistant steel grades

ASTM/ASME - NICKEL ALLOY STANDARDS

ASTM B407/ASME SB 407	Standard specification for nickel-iron-chromium alloy seamless pipes and tubes
ASTM B423/ASME SB 423	Standard specification for nickel-iron-chromium-molybdenum-copper alloy (UNS N08825, N08221, and N06845) seamless pipe and tubes
ASTM B668/ASME SB 668	Standard specification for UNS N08028 and N08029 seamless pipes and tubes
ASTM B677/ASME SB 677	Standard specification for UNS N08925, UNS N08354, and UNS N08926 seamless pipes and tubes
ASTM B163/ASME SB 163	Standard specification for seamless nickel and nickel alloy condenser and heat-exchanger tubes
ASTM B167/ASME SB 167	Standard specification for nickel-chromium-iron alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025, N06045, and N06696), nickel-chromium-cobalt-molybdenum alloy (UNS N06617), and nickel-iron-chromium-tungsten alloy (UNS N06674) seamless pipes and tubes
ASTM B 444/ ASME SB 444	Standard specification for nickel-chromium-molybdenum-columbium alloys (UNS N06625 and UNS N06852) and nickel-chromium-molybdenum-silicon alloy (UNS N06219) pipes and tubes

GOST-NICKEL ALLOY STANDARDS

GOST 10498-82	Specific thin-walled corrosion resistant seamless steel tubes
GOST 14162-79	Small-sized (capillary) steel pipes
GOST 19277-73	Seamless steel tubes for oil and fuel lines
GOST 9940	Hot-finished seamless tubes of corrosion resistant steel grades
GOST 9941	Cold-finished and warm-finished seamless tubes of corrosion resistant steel grades

CERTIFICATE

महाराष्ट्र शासन

औद्योगिक सुरक्षा व आरोग्य संचालनालय (संलग्न विभाग)

Name & Address :

SEMINOX PIPES AND TUBES PRIVATE LIMITED

Plot No. 1 of Gut No.2,& Plot No. 3 of Gut No. 2, Khuperi, Wada, Palghar, MAHARASHTRA, 421312

This Certificate is digitally signed by on. 06-01-2023

GLOBA

Declaration of Compliance

Name & Address of Manufacturer:

SEMINOX PIPES & TUBES PVT. LTD.

114/115, 1st Floor, Regal Diamond Center, Tata Road No.1, Mumbai- 400004, India.

This is to certify that the manufacturer has implemented and applies a QA System

Applied Pressure Equipment Directive 2014/68/EU

For following scope:

MANUFACTURER OF STAINLESS STEEL AND HIGH NICKEL ALLOYS SEAMLESS AND WELDED PIPES, TUBES & U-TUBES.

Production Unit:

Plot No.1 of Gut No.2 & Plot No.3 of Gut No.2, Khuperi, Wada, Thane-421312, India.

Certificate No. : 1011-PED-BA-12-2202-SIAC-001675-IN

This certificate is valid from 22-Dec-2022 until 22-Dec-2025 and remains valid subject to satisfactory Annual surveillance audits. Certification expiry on 21-Dec-2025

The validity of this certificate is conditional to a valid certification according to ISO/IEC - 3151

Date of Issue : 22/12/2022

Place: Vienna, Italy

Dennis Hinze

Head – Certification (Pressure Equipment)

Gulf Lloyds Business Assurance (Europe)

GLOBA is duly accredited by SIAC(Swiss International Accreditation Center (Europe))

For verification of the validity of this certificate, applicants may contact the certification body at the coordinates mentioned in the certificate. The certification body is not responsible for any damages or loss of property or injuries caused by the use of this certificate. The certification body is not responsible for any damages or loss of property or injuries caused by the use of this certificate. The certification body is not responsible for any damages or loss of property or injuries caused by the use of this certificate.

GLOBA

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that Quality Management System of

SEMINOX PIPES & TUBES PVT. LTD.

Office: 114/115, 1st Floor, Regal Diamond Center, Tata Road No.1, Mumbai- 400004, India.

Works: Plot No.1 of Gut No.2 & Plot No.3 of Gut No.2, Khuperi, Wada, Thane-421312, India.

Has been assessed and found to conform to the requirements of

ISO 9001 : 2015

For Following Scope:

MANUFACTURER OF STAINLESS STEEL AND HIGH NICKEL ALLOYS SEAMLESS AND WELDED PIPES, TUBES & U-TUBES.

Certificate No.: 1011-QMS-BA-12-2202-SIAC-001670-IN

This certificate is valid from 20-Dec-2022 until 20-Dec-2025 and remains valid subject to satisfactory surveillance audits on 19-Dec-2023 and 19-Dec-2024

Re-certification audit due on 20-Dec-2025

Certification expiry on 19-Dec-2025

Certification Manager

Gulf Lloyds Business Assurance

GLOBA is accredited by SIAC(Swiss International Accreditation Center - EUROPE).

For verification of this certificate, visit CB Website at: www.globa.ch

The certificate remains the property of Gulf Lloyds Business Assurance, to whom it must be returned on expiry, if withdrawn or if certification scope and conditions do not comply. Gulf Lloyds Business Assurance does not accept any liabilities and claims arising due to this certificate.

ISO 9001 : 2015

GLOBA

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that Environmental Management System of

SEMINOX PIPES & TUBES PVT. LTD.

Office: 114/115, 1st Floor, Regal Diamond Center, Tata Road No.1, Mumbai- 400004, India.

Works: Plot No.1 of Gut No.2 & Plot No.3 of Gut No.2, Khuperi, Wada, Thane-421312, India.

Has been assessed and found to conform to the requirements of

ISO 14001 : 2015

For Following Scope:

MANUFACTURER OF STAINLESS STEEL AND HIGH NICKEL ALLOYS SEAMLESS AND WELDED PIPES, TUBES & U-TUBES.

Certificate No.: 1011-EMS-BA-12-2202-SIAC-001671-IN

This certificate is valid from 20-Dec-2022 until 20-Dec-2025 and remains valid subject to satisfactory surveillance audits on 19-Dec-2023 and 19-Dec-2024

Re-certification audit due on 20-Dec-2025

Certification expiry on 19-Dec-2025

Certification Manager

Gulf Lloyds Business Assurance

GLOBA is accredited by SIAC(Swiss International Accreditation Center - EUROPE).

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ISO 14001 : 2015

GLOBA

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that Occupational Health and Safety Management System of

SEMINOX PIPES & TUBES PVT. LTD.

Office: 114/115, 1st Floor, Regal Diamond Center, Tata Road No.1, Mumbai- 400004, India.

Works: Plot No.1 of Gut No.2 & Plot No.3 of Gut No.2, Khuperi, Wada, Thane-421312, India.

Has been assessed and found to conform to the requirements of

ISO 45001 : 2018

For Following Scope:

MANUFACTURER OF STAINLESS STEEL AND HIGH NICKEL ALLOYS SEAMLESS AND WELDED PIPES, TUBES & U-TUBES.

Certificate No.: 1011-OHSMS-BA-12-2202-SIAC-001672-IN

This certificate is valid from 20-Dec-2022 until 20-Dec-2025 and remains valid subject to satisfactory surveillance audits on 19-Dec-2023 and 19-Dec-2024

Re-certification audit due on 20-Dec-2025

Certification expiry on 19-Dec-2025

Certification Manager

Gulf Lloyds Business Assurance

GLOBA is accredited by SIAC(Swiss International Accreditation Center - EUROPE).

For verification of this certificate, visit CB Website at: www.globa.ch

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ISO 45001 : 2018

GLOBA Ref No.: GLBA/IND/PED/2022/12/001675 Date: 22-12-2022

Certificate No.: 1011-PED-BA-12-2202-SIAC-001675-IN

GLOBA

ANNEXURE

Scope of Approval :

MANUFACTURER OF STAINLESS STEEL AND HIGH NICKEL ALLOYS SEAMLESS AND WELDED PIPES, TUBES & U-TUBES.

Manufacturers Name & Address:

SEMINOX PIPES & TUBES PVT. LTD.

Office: 114/115, 1st Floor, Regal Diamond Center, Tata Road No.1, Mumbai- 400004, India.

Manufacturing Unit: Plot No.1 of Gut No.2 & Plot No.3 of Gut No.2, Khuperi, Wada, Thane-421312, India.

SR NO	PRODUCT NAME	PRODUCT TYPE	MATERIAL GRADE	SPECIFICATION	MANUFACTURING RANGE	Remarks
1	SEAMLESS PIPES	STAINLESS STEEL DUPLEX / SUPER DUPLEX SEAMLESS PIPES	TP 304/304L, TP 304H, TP 316/316L, TP 316H, TP 316Ti, TP 310/310S, TP 317/317H, TP 321/321H, TP 347/347H, TP 904L, UNS S 31260, 31803, 31500, 31803, 32205, 32304, 32750, 32760	EN 10216-5, A-213, A-554, A-376, A-790, A358 / A-358M and its Equivalent ASME, DIN & EN Standard	½" NB TO 12" NB (UP TO SCH 160)	
2	SEAMLESS TUBES	STAINLESS STEEL DUPLEX / SUPER DUPLEX SEAMLESS TUBES	TP 304/304L, TP 304H, TP 316/316L, TP 316H, TP 316Ti, TP 310/310S, TP 317/317H, TP 321/321H, TP 347/347H, TP 904L, UNS S 31260, 31803, 31500, 31803, 32205, 32304, 32750, 32760	EN 10216-5, A-213, A-268, A-269, A-270, A789 and its Equivalent ASME, DIN & EN Standard	6.00 MM OD to 101.6 MM OD (0.40 MM THK to 7.00 MM THK)	
3	WELDED PIPES	STAINLESS STEEL DUPLEX / SUPER DUPLEX WELDED PIPES	TP 304, TP 304L, TP 316, TP 316L, TP 321, TP 347/H, 309, TP - 409/L, TP - 410, TP 904L, UNS S 31260, 31803, 31500, 31803, 32205, 32304, 32750, 32760	ASTM A-312, A-554, A-778 its Equivalent ASME, DIN & EN Standard	½" NB TO 16" NB (UP TO SCH 80S)	

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4	WELDED TUBES	STAINLESS STEEL DUPLEX / SUPER DUPLEX WELDED TUBES	TP 304, TP 304L, TP 316,TP 316L, TP 321, TP 347/H, 309, TP - 409/L, TP - 410, TP 904L, UNS S 31260, 31803, 31500, 31803, 32205, 32304, 32750, 32760	ASTM A-249, A-268, A-269, A-270, A-554, A-688, A-778 its Equivalent ASME, DIN & EN Standard	6.35 MM OD to 114.3 MM OD (0.50 MM THK to 7.00 MM THK)	
5	SEAMLESS TUBES	NICKEL ALLOY SEAMLESS TUBES	UNS N04400, N06600, N06625, N08020, N08800, N08810, N08825 and other various grades as per European Norms.	SB 163, SB 167,SB 407, SB 423, SB 444 and its equivalent ASME, DIN & EN standard.	6.00 MM to 76.00 MM OD (0.7 MM THK to 6.00 MM THK)	
6	SEAMLESS PIPES	NICKEL ALLOY SEAMLESS PIPES	N04400, N06625, N08020, N08800, N08810, N08825 and other various grades as per European Norms	SB 163, SB 167,SB 407, SB 423, SB 444 & its equivalent ASME, DIN & EN standard.	1/8 NPS to 8 NPS (Upto SCH.XXS)	
7	SEAMLESS 'U' TUBES	STAINLESS STEEL SEAMLESS HEAT EXCHANGER 'U' - TUBES	TP 304, 304L, 304H, 304N, 304LN 316, 316L, 316H, 316Ti, 316LN, 310, 310S, 317, 317L, 321, 321H, 347, 347H, 904L, UNS S 31260, 31803, 31500, 31803, 32205, 32304, 32750, 32760	ASTM A-213, A-269, A-789 EN 10216-5, SB 163, SB 167, SB 407, SB 423, SB 444 U-Tubes as per Customer's Drawing. Tubes can also be supplied as per ASME, DIN & EN specification.	12.70 MM to 50.80 MM (0.89 MM THK to 5.00 MM THK)	

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Page 2 of 2

END USERS AND APPROVALS

Integral Coach Factory | BHEL | IndianOil | NTPC | IBR Approved | sabic | SAIPEM | NEOM

SEMINOX®
PIPES & TUBES PVT. LIMITED

APPLICATION INDUSTRIES





- Heat Exchanger & Condenser
- LP / HP Heaters
- Oil & Gas Industry
- Power Plants
- Fertilizer Plants
- Refinery & Petrochemicals
- Chemical & Pharmaceutical
- Railways

- Furniture
- Chemical & Pharmaceutical
- Railways
- Furniture
- Dairy & Food Industries
- Sanitary & Plumbing
- Textile Industry
- Ship building





SEMINOX®
PIPES & TUBES PVT. LIMITED

HEAD OFFICE
1219 / 1220, 12th Floor,
Prasad Chambers, Girgaon,
Mumbai- 400004

Email : info@seminoxpipes.com
Contact : +91 9619412057

Website : www.seminoxpipe.com

AHMEDABAD OFFICE
"Semi Steel House"
72 Muncipal Plot, Ajod Dairy Road,
Rakhial, Ahmedabad-380023.

WAREHOUSE
Shop No. 4,
Islampura,
Mumbai - 400004

FACTORY ADDRESS
Plot No.1 of Gut No.2 &
Plot No.3 of Gut No. 2,
Khupari, Wada, Thane 421312.