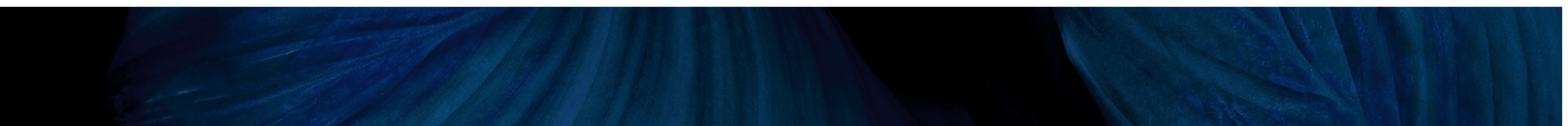
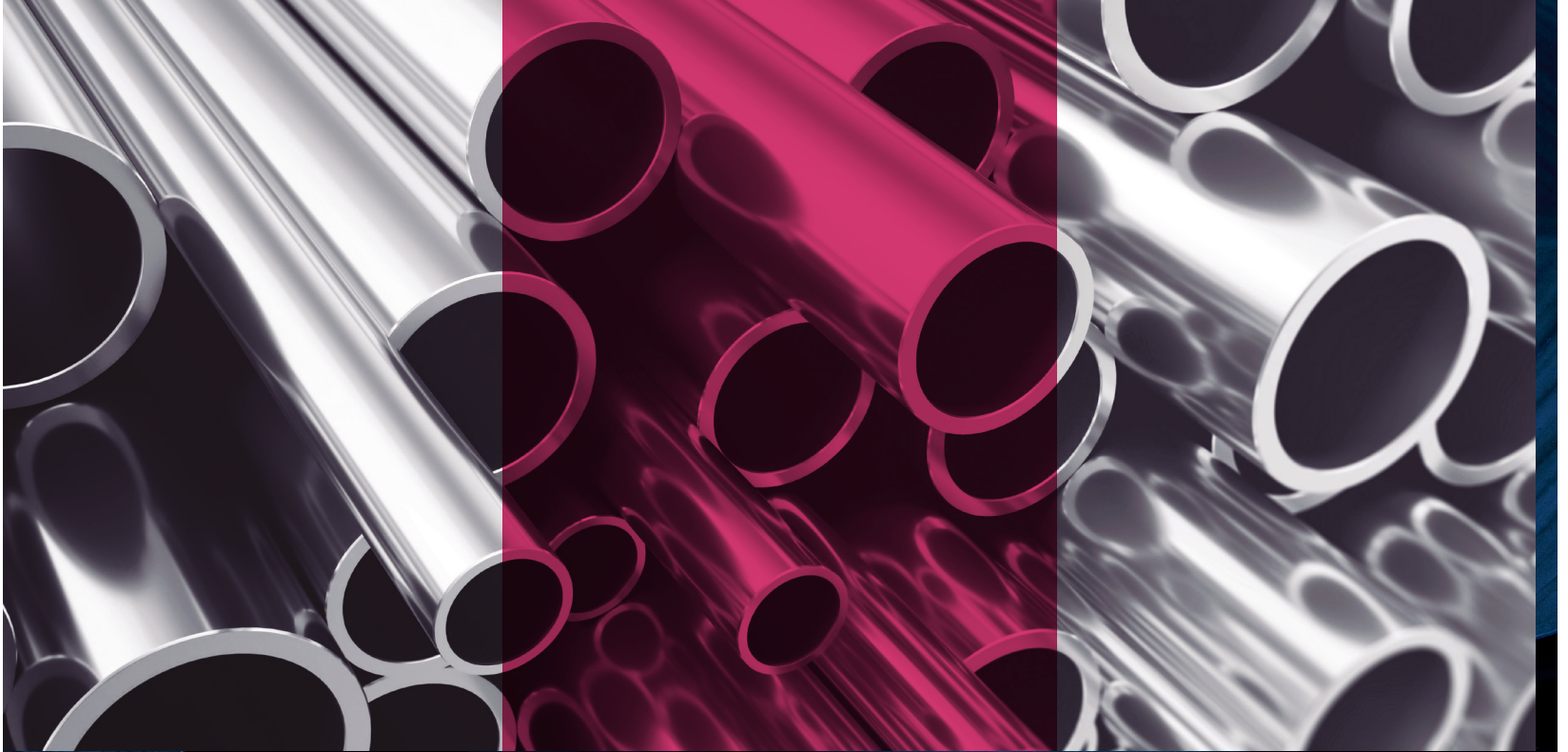


# HYDROGEN APPLICATIONS

STAINLESS STEEL AND HIGH NICKEL  
ALLOYS TUBULAR SOLUTIONS





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## TUBACEX: GLOBAL SOLUTIONS PROVIDER

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## PORTFOLIO

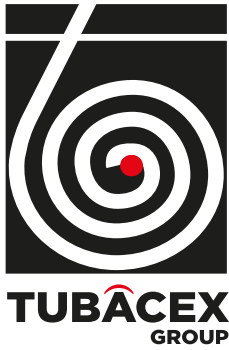
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## A GLOBAL LEADER IN SEAMLESS STAINLESS AND HIGH NICKEL ALLOYS PIPES AND TUBES

TUBACEX is a world leader in sophisticated industrial products and high value-added services for the energy and mobility sectors. With offices in Álava, TUBACEX has production plants in thirteen countries (Spain, Austria, Italy, USA, India, Thailand, Saudi Arabia, Dubai, Norway, Canada, Singapore, Guyana and Kazakhstan) on four continents, and service centers and sales offices worldwide. TUBACEX is an expert in maximum-efficiency applications for the Oil & Gas and energy generation sectors and other industrial applications. The TUBACEX commitment to emission reduction has been validated by the Science Based Targets (SBT); TUBACEX has also been listed by other reputable rating agencies, including the CDP, and the Ecovadis and S&P sustainability ratings.

### **Worldwide presence**

Through our commercial offices

### **Competitiveness**

Thanks to our lean manufacturing process

### **Service**

Cooperation with our customers

### **Flexibility**

In materials chemical composition & deliveries

### **Reliability**

Of a fully integrated company



**OUR CUSTOMERS ARE THE MAIN DRIVER  
OF THE TUBACEX GROUP'S ACTIVITY  
AND EFFORTS.**

**TUBACEX**  
GROUP



# THE WIDEST PORTFOLIO IN STAINLESS STEEL

A TRULY GLOBAL SOLUTIONS PROVIDER AT YOUR SERVICE



## SOLUTIONS

▶ **STAINLESS STEEL AND HIGH NICKEL ALLOYS BARS AND BILLETS**

▶ **SEAMLESS PIPE AND TUBES TO 8" (EXTRUSION, PIERCING, COLD FINISHING)**

▶ **SEAMLESS PIPE AND TUBES TO 72"**

▶ **FITTINGS AND SPECIAL CONNECTIONS FROM 1/2" TO 72"**

▶ **STAINLESS STEEL MACHINED PARTS**

▶ **VALUE ADDED OPERATIONS AND SERVICES**

▶ **STOCK, SERVICE AND TRADING**

## BUSINESS UNIT

**ACERALAVA**

TUBACEX GROUP

**TTI**

TUBACEX GROUP

**SCHOELLER BLECKMANN**

TUBACEX GROUP

**SALEM TUBE**

TUBACEX GROUP

**TUBACEX DURANT**

TUBACEX GROUP

**TTP**

TUBACEX GROUP

**IBF**

TUBACEX GROUP

**TTA**

TUBACEX GROUP

**AWAJI STAINLESS**

TUBACEX GROUP

**NTS**

Group  
SENAT – TUBACEX JV

**TUBACEX UPSTREAM TECHNOLOGIES**

TUBACEX GROUP

**TUBACEX SERVICES**

TUBACEX GROUP

**TUBACOAT**

TUBACEX GROUP

**TSS**

TUBACEX GROUP

**TUBOS MECANICOS**

TUBACEX GROUP

# SEAMLESS PIPES AND TUBES

The Tubacex Group has an extensive manufacturing program for Stainless Steel and Nickel Alloys Seamless pipes and tubes covering most dimensions and grades required by the industry. Seamless Stainless Steel Tubing can be hot or cold finished, covering the following range:

## MANUFACTURING RANGE

OUTSIDE DIAMETER		HOT MANUFACTURING DIMENSIONS																																	Inch				
		WALL THICKNESS																																					
ASTM A312 ASME B.36.10	Inch	0.120	0.126	0.133	0.134	0.140	0.145	0.148	0.154	0.179	0.191	0.200	0.203	0.216	0.218	0.226	0.237	0.250	0.258	0.276	0.280	0.281	0.300	0.318	0.322	0.337	0.344	0.375	0.406	0.432	0.438	0.500	0.531	0.562	0.625	0.719	0.906	1.000	DIN
	mm	3,05	3,20	3,38	3,40	3,56	3,68	3,76	3,91	4,55	4,85	5,08	5,16	5,49	5,54	5,74	6,02	6,35	6,55	7,01	7,11	7,14	7,62	8,08	8,18	8,56	8,74	9,52	10,31	10,97	11,13	12,7	13,49	14,27	15,88	18,26	23,10	25,40	mm
NPS	Inch	mm																																		DIN			
	1,496	38,0																																					
	1,575	40,0																																					
1 1/4	1,660	42,16																																		160			
	1,752	44,5																																					
1 1/2	1,900	48,26																																		160			
	2,008	51,0																																					
	2,126	54,0																																					
	2,244	57,0																																					
2.0	2,375	60,33																																		160			
	2,500	63,5																																					
	2,756	70,0																																					
2 1/2	2,875	73,03																																		160			
3.0	3,500	88,9																																		160			
3 1/2	4,000	101,60																																		160			
	4,252	108,0																																					
4.0	4,500	114,30																																		160			
	5,236	133,0																																					
	5,500	139,7																																					
5.0	5,563	141,3																																		160			
	6,260	159,0																																					
6.0	6,625	168,28																																		160			
	7,626	193,7																																					
8.0	8,625	219,08																																		160			
	9,000	228,6																																					
	9,626	244,5																																					

Range of Tubacex Tubos Inoxidables and Schoeller Bleckmann Edelstahlrohr for austenitic hot manufactured tubes and pipes. Production according to main manufacturing standards (ASTM/ASME, EN and other international manufacturing standards). Non standard articles available upon request.

## MANUFACTURING RANGE

OUTSIDE DIAMETER		COLD MANUFACTURING DIMENSIONS																																	Inch				
		WALL THICKNESS																																					
ASTM A312 ASME B.36.10	Inch	0.020	0.035	0.049	0.065	0.083	0.091	0.102	0.109	0.113	0.120	0.126	0.133	0.134	0.140	0.145	0.148	0.154	0.179	0.191	0.200	0.203	0.216	0.219	0.226	0.237	0.250	0.258	0.276	0.280	0.300	0.318	0.322	0.337	0.375	0.432	0.500	0.559	DIN
	mm	0,50	0,89	1,24	1,65	2,11	2,31	2,59	2,77	2,87	3,05	3,20	3,38	3,40	3,56	3,68	3,76	3,91	4,55	4,85	5,08	5,16	5,49	5,56	5,74	6,02	6,35	6,55	7,01	7,11	7,62	8,08	8,18	8,56	9,53	10,97	12,70	14,20	mm
NPS	Inch	mm																																		DIN			
	0,125	3,17																																					
	0,236	6,0																																					
	0,315	8,0																																					
1/8	0,405	10,29																																		10			
	0,472	12,0																																					
1/4	0,540	13,72																																		10			
	0,630	16,0																																					
3/8	0,675	17,15																																		10			
	0,748	19,0																																		40			
	0,787	20,0																																		80			
1/2	0,840	21,34																																		5			
	0,984	25,0																																		10			
3/4	1,050	26,67																																		5			
	1,181	30,0																																		10			
	1,260	32,0																																		40			
1.0	1,315	33,40																																		5			
	1,378	35,0																																		10			
	1,496	38,0																																		40			
	1,575	40,0																																		80			
1 1/4	1,660	42,16																																		5			
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Range of Tubacex Tubos Inoxidables, Schoeller Bleckmann Edelstahlrohr, Salem Tube and Tubacex India for Austenitic cold manufactured tubes and pipes. Production according to main manufacturing standards (ASTM/ASME, EN and other international manufacturing standards). Non standard articles available on request.

# PRECISION TUBES

TUBACEX offers the industry's largest portfolio of high-performance tubing, corrosion-resistant alloys, as well as a commitment to delivering on short lead times and emergency projects.

## AUSTENITIC GRADES (304/304L, 316/316L, 317/317L)

 Straights and coils     Straight-LENGTHS

		WALL THICKNESS															
		INCH	0.020	0.028	0.035	0.039	0.049	0.059	0.065	0.079	0.083	0.095	0.109	0.120	0.179	0.188	
OUTER DIAMETER	INCH	MM	0.51	0.71	0.89	1	1.24	1.5	1.65	2	2.11	2.41	2.77	3.05	4.55	4.78	
	1/8	3.18															
	1/5	4.76															
	1/4	6.35															
	1/3	7.94															
	3/8	9.53															
	2/5	10															
	4/9	12															
	1/2	12.7															
	3/5	15															
	5/8	16															
	5/7	18															
	3/4	19.05															
	7/9	20															
	6/7	22															
	1	25.4															
	1-1/4	31.75															
	1-1/2	38.1															
	1-3/4	44.45															
	2	50.8															

## SUPER AUSTENITIC, DUPLEX, NICKEL-ALLOY, & PH GRADES (904L, 6MO, 2205, 2507, 400, 600, 617, 625, 690, 825; N200; N201, C22, C276, 15-5, 17-4, 17-7)

		WALL THICKNESS															
		INCH	0.020	0.028	0.035	0.039	0.049	0.059	0.065	0.079	0.083	0.095	0.109	0.120	0.179	0.188	
OUTER DIAMETER	INCH	MM	0.51	0.71	0.89	1	1.24	1.5	1.65	2	2.11	2.41	2.77	3.05	4.55	4.78	
	1/8	3.18															
	1/5	4.76															
	1/4	6.35															
	1/3	7.94															
	3/8	9.53															
	2/5	10															
	4/9	12															
	1/2	12.7															
	3/5	15															
	5/8	16															
	5/7	18															
	3/4	19.05															
	7/9	20															
	6/7	22															
	1	25.4															
	1-1/4	31.75															
	1-1/2	38.1															
	1-3/4	44.45															
	2	50.8															





## FITTINGS AND SPECIAL COMPONENTS

The Tubacex range includes the design and manufacturing of butt welding fittings, tube bends, elbows, tees, reducers and caps (both seamless and welded), complementing the wide offer of tubular solutions, by IBF and TTA companies. In addition, IBF offers a wide range of special parts (manifolds, laterals, special reducers...)

The Tubacex Group's fitting and special components extensive production program is suitable for all kinds of projects. The range offered is one of the widest in the industry:

### MANUFACTURING RANGE - FITTINGS AND SPECIAL PARTS

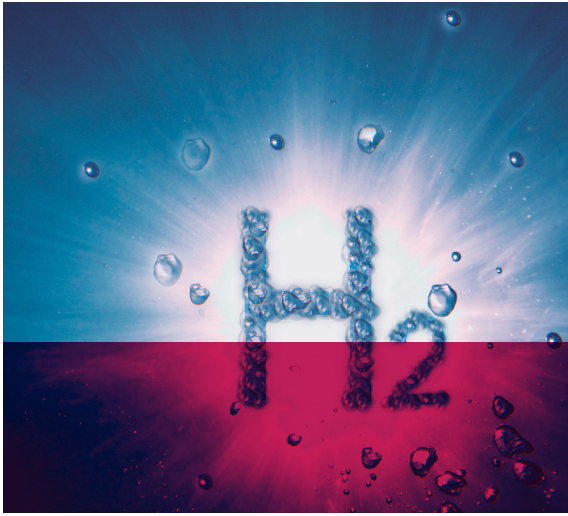
Seamless	1/2" ton 44"
Welded	1/2" ton 72"
Hot drawing, bending and cold drawing processes Any thickness Lengths from 0,5 to 20 meter	

Materials covered include a wide range of grades, from carbon steel to titanium, with focus in Stainless Steel and High Nickel Alloys – same as described regarding trepanned pipes. The Tubacex Group maintains a very high stock level in finished and semifinished products, as well as base materials, to provide full flexibility and an extremely competitive lead time.

- In addition to fittings, special components such as laterals, manifolds, tees, stress joints, weldolets are manufactured at IBF fittings and special parts division, with a clear trend to a more particularized design.

FITTINGS	SPECIAL PARTS
Butt Welding fittings & elbows	Special components
Tees	Manifolds
Reducers	Laterals
3D / 5D Bends / Stress Joints	Special Reducers

- Flexible production processes allow The Tubacex Group's products to be manufactured by a variety of production methods, to reach a wide range in a specialized market, where particularized designs are growingly demanded – designs defined and calculated by our engineering departments.
- IBF has a technical department equipped with CAD systems for design and calculation. This department designs fittings and special items in compliance with all applicable standards and specifications and in conjunction with the client's specific requirements. In addition, the department offers support to the development of all necessary production equipment, machinery and technical processes.



## STAINLESS STEELS FOR HYDROGEN SERVICE

Hydrogen is a clean and sustainable energy source that is currently considered to be one of the best potential substitutes to fossil fuel. Hydrogen value chain including production, process, distribution and storage presents significant challenges for materials requiring resistance to hydrogen embrittlement, high mechanical properties to withstand high pressures and microstructure stability to resist cryogenic conditions or high temperature resistance. Stainless steels are perfect candidates to fulfil these requirements.

Tubacex is a transversal supplier to the whole hydrogen value chain. From gas production, in the case of grey or blue hydrogen, through all the generation technologies, liquefaction, transport, and most of the applications, our products are used.

As one stop shop supplier, we are producers of Steel, pipes, tubes and fittings, in a fully integrated way. In addition, we provide a broad spectrum of services associated with or without products, in order to better service our customers, and reduce the overall cost.

### STEAM REFORMING:

it is the most conventional and widely used to produce hydrogen. In order to reduce CO<sub>2</sub> emissions, new concepts and designs are being developed like CCS or more efficient designs. TUBACEX produces different high temperature grades for these applications, and in collaboration with the company VDM, the new grade 699XA provides outstanding performance for the highly reductive atmospheres, present in recuperative designs.

### ELECTROLYZERS:

Austenitic stainless steels are the most used materials in electrolyzers. In particular, TUBACEX supply piping, fittings and precision tubing for the balance of plant and instrumentation of the process.

### HYDROGEN STATIONS:

Storage of hydrogen and high pressure conditions are the key characteristics of this application. TUBACEX is one of the leading companies on high precision tubing. Furthermore, our offer includes high pressure tubing, with low diameter to thickness ratio, for the most demanding mechanical conditions.

### HYDROGEN INDUSTRIAL APPLICATIONS:

The 316 series with different variants is generally used, but TUBACEX offers a complete portfolio of alloys that can be adjusted to meet particular specifications.





#### AUSTENITICS: CROGENIC AND HIGH PRESSURE APPLICATIONS

GRADE	C	MN	P	S	SI	CR	NI	MO	N	OTHER
TX 316/316L	≤0.03	≤2.00	≤0.040	≤0.015	≤0.75	16.50-18.00	11.00-13.00	>2.00	-	-
TX 316/316L HMo	≤0.03	≤2.00	≤0.040	≤0.015	≤0.75	16.50-18.00	11.00-13.00	>2.50	-	-
XM-19	≤0.06	4.0-6.0	≤0.045	≤0.030	≤1.00	20.5-23.5	11.5-13.5	1.50-3.00	0.20-0.40	Nb 0.10-0.30 V 0.10-0.30

#### HIGH TEMPERATURE ALLOYS

GRADE	C	MN	P	S	SI	CR	NI	AL	TI	CU	N	OTHER
Alloy 800H/800HT	0.060-0.100	≤1.50	≤0.030	≤0.015	≤1.00	19.00-23.00	30.00-34.00	0.25-0.60	0.25-0.60	≤0.75	-	Co≤1.00 Fe>39.50 Al +Ti 0.85-1.00 Ni+Co 30.00-34.00
Alloy 699 XA	0.005-0.10	≤0.50	≤0.02	≤0.01	≤0.50	26.0-30.0	Reminder	1.9-3.0	≤0.60	≤0.50	≤0.05	Nb≤0.50 Zr≤0,10 B≤0,008 Fe≤2.5

Other materials available upon request.



Material Data sheets available upon request



## TX 316/316L

TX 316/316L, the low carbon version of 316, is a molybdenum alloyed austenitic stainless chromium nickel steel. It has very high immunity from sensitization. The austenitic structure gives these grades excellent toughness, even down to cryogenic temperatures. TX 316/316L is an excellent material to be used in hydrogen service due to its resistance to hydrogen embrittlement. For electrolyzers it is used as substrate for bipolar plates in due to the combination of corrosion resistance, electrical conductivity, and high strength.

The added molybdenum (>2.5%) of TX 316/316HMo improves pitting and crevice corrosion resistance compared to standard 316/316L chemistries with typical molybdenum contents around 2,1%. With higher strength at elevated temperatures, it is sometimes used for structural and pressure containing applications at temperatures above about 500°C.

## TX S20910 (XM19)

**TX S20910 is a nitrogen-strengthened and manganese alloyed austenitic stainless steel with better corrosion resistance than stainless steel grades 316 and 317 and higher mechanical strength, about twice the yield strength at room temperature.** In addition, TX S20910 has very good mechanical properties at both elevated and subzero temperatures. Unlike many austenitic stainless steels, TX S20910 does not become magnetic when cold worked or cooled to sub-zero temperatures. Moreover, TX S20910 has excellent hydrogen embrittlement resistance in comparison with 316L, even at high pressurized hydrogen gas at lower temperature.

## ALLOY 699 XA®

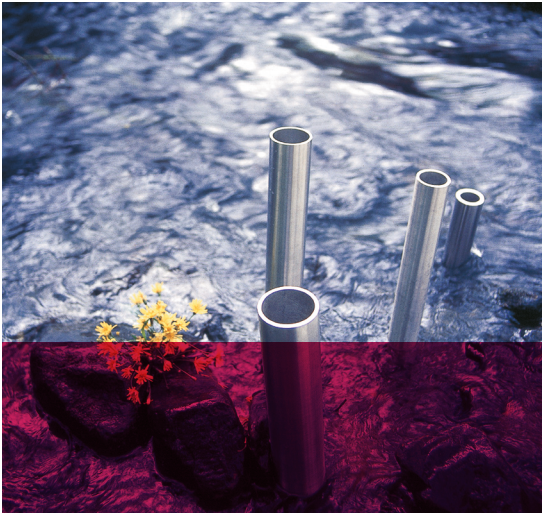
**A nickel-based alloy with superior resistance to metal dusting.**

Metal dusting is a high-temperature corrosion phenomenon occurring in carbonaceous environments at temperatures between 400 and 800 °C. These conditions inevitably occur in some industrial processes such as synthesis gas production, iron ore reduction, and ammonia or methanol plants. An example of application of Alloy 699XA® tubes is as catalyst tubing of a convective heat exchange reformer located adjacent to the primary reformer of some hydrocarbon processing plants. This parallel equipment uses the high heat level of the effluent of the primary reformer to reform additional feed. This special reformer reduces the emissions and can increase the total hydrogen capacity of the plant by 20-30%.



Under metal dusting conditions, vulnerable materials are disintegrated in high amounts of coke mixed with metal, metal carbides and metal oxides.

Material Data sheets available upon request



**Alloy 699 XA®** is a nickel-based alloy with chromium and aluminum additions. Hence, the formation of a highly protective oxide scale is the responsible of its high resistance to metal dusting. The alloy also exhibits very high creep strength.

**Designations and standards:**

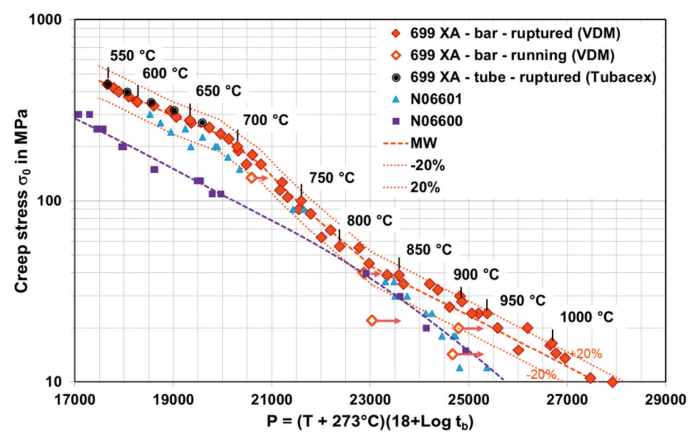
UNS N06699 - EN 2,4842

ASTM B167 - ASTM B163 Seamless pipes and tubes



**CREEP RESISTANCE**

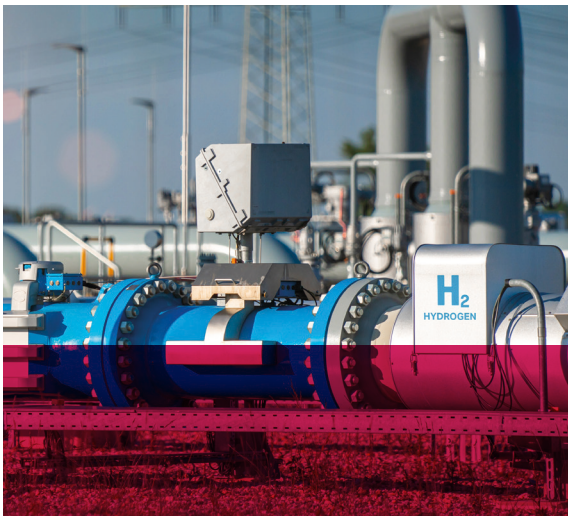
High-temperature strength of Alloy 699 XA® is at least at the level of Alloy 601, a nickel-based alloy with very high creep properties used in very demanding high-temperature applications



**METAL DUSTING RESISTANCE**

Metal dusting laboratory tests in high carbon activity atmospheres showed outstanding metal dusting resistance of Alloy 699 XA®.

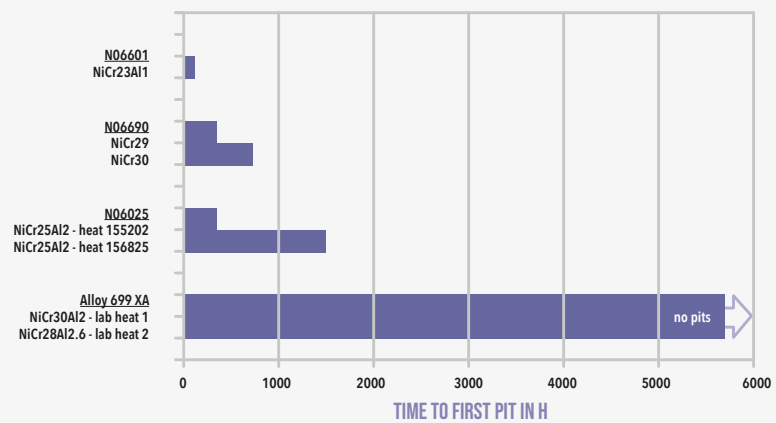
Material Data sheets available upon request



TEST 1

IN VOL %				T IN °C	PO <sub>2</sub> IN BAR	C ACTIVITY	
CO	H <sub>2</sub> O	CO <sub>2</sub>	H <sub>2</sub>			CO reduction	Boudouard
37	9	7	46	620	2,56.10 <sup>-27</sup>	163	452

Alloy 699 XA® exhibits higher metal dusting resistance than Alloy 601, Alloy 690, and Alloy 602.



H. Hattendorf, R. IJzerman\*), C. G. M. Hermse\*\*) et al \*) TNO, \*\*) now Shell from C2018 11200, Corrosion 2018

## ALLOY 800H / ALLOY 800HT

A Ni-Fe-Cr alloy with excellent high-temperature strength and corrosion resistance Alloy 800H and Alloy 800HT are nickel-iron-chromium alloys that possess very good high-temperature strength and resistance to high-temperature corrosion phenomena such as oxidation and carburization, among others. These characteristics make these alloys extremely useful for many applications affected by long-term exposure to elevated temperatures and corrosive environments. Examples of applications in which hydrogen is involved are catalyst tubing, outlet manifolds, pigtails, convection tubing, and quenching-system piping in steam/hydrocarbon reforming; tubing in hydrogenation heaters for oxy-alcohol production; convection and cracking tubes, and pigtails for ethylene production; heater tubing for hydrodealkylation units; and cracking tubes, return bends and inlet and outlet flanges in the production of vinyl chloride monomer.

Alloy 800H and Alloy 800HT are nickel-iron-chromium alloys with controlled additions of carbon, aluminum, and titanium. Furthermore, both alloys are solution annealed to produce a final grain size of 5 ASTM or coarser. Because of the limited chemical composition and the achieved microstructure, Alloy 800H and Alloy 800HT display excellent creep and rupture strength and high-temperature corrosion resistance.

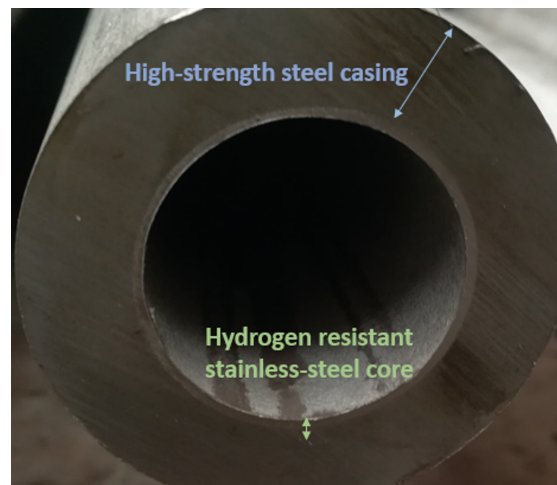
Material Data sheets available upon request



## BIMETALLIC TUBES

### An innovative solution for high-pressure hydrogen transport

Bimetallic tubes are constituted of a high strength steel casing and a hydrogen resistant stainless-steel core. The combination of these two properties makes the bimetallic tube an optimum solution for high-pressure hydrogen transport.



Bimetallic tubes are produced by co-extrusion, so that a perfect metallurgical bonding between casing and core is achieved.

### DESIGNATIONS AND STANDARDS:

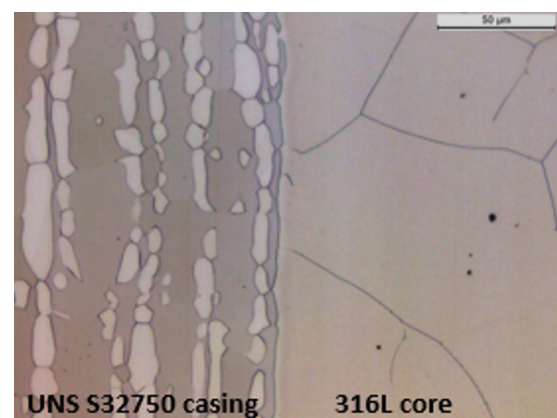
Applicable designations and standards will depend on the materials selected for casing and core.

### CHEMICAL COMPOSITION

The chemical composition will depend on the materials selected for casing and core.

### MICROSTRUCTURE

The microstructure will depend on the materials selected for casing and core. In all cases, a perfect metallurgical bonding between the 2 steel grades is guaranteed.



Example of the perfect metallurgical bonding achieved in a bimetallic tube  
 → UNS S32750 superduplex grade casing + 316L austenitic grade core.



## TBX LABS

Tubacex Innovation provides technical services for industry around the world.

Its vast multi-sector experience in material selection along with the deep knowledge of production processes, make Tubacex Innovation the best partner to optimize your projects. It is focused on material development, best corrosion performance and improved mechanical properties to offer efficient solutions in terms of cost, lead times, risk reduction and environmental performance.



**MULTI-SECTOR EXPERIENCE IN MATERIAL SELECTION  
UNDERSTANDING OF THE PRODUCTION PROCESS**



**COST EFFECTIVE SOLUTIONS**



**REDUCTION OF RISKS**



**IMPROVING LEAD TIMES**



**REDUCING ENVIRONMENTAL FOOTPRINT**

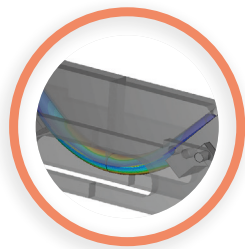


**MATERIAL DEVELOPMENT BEST CORROSION PERFORMANCE  
IMPROVED MECHANICAL PROPERTIES**



### TECHNICAL ADVICE ON MATERIALS AND PROCESSES

Technical advice on the selection of materials and processes to ensure design integrity.



### INTENSIVE LAB TESTING

Fully laboratory devoted to R&D with a group of researchers specialized in metalurgy.



### DESIGN AND ADVANCE SIMULATION

Design & verification through simulation and validation tools.



### YOUR PARTNER IN R&D PROJECTS

Our specialists ensure that the design, analysis, equipment selection and implementation are all aligned and buttressed by operational expertise.



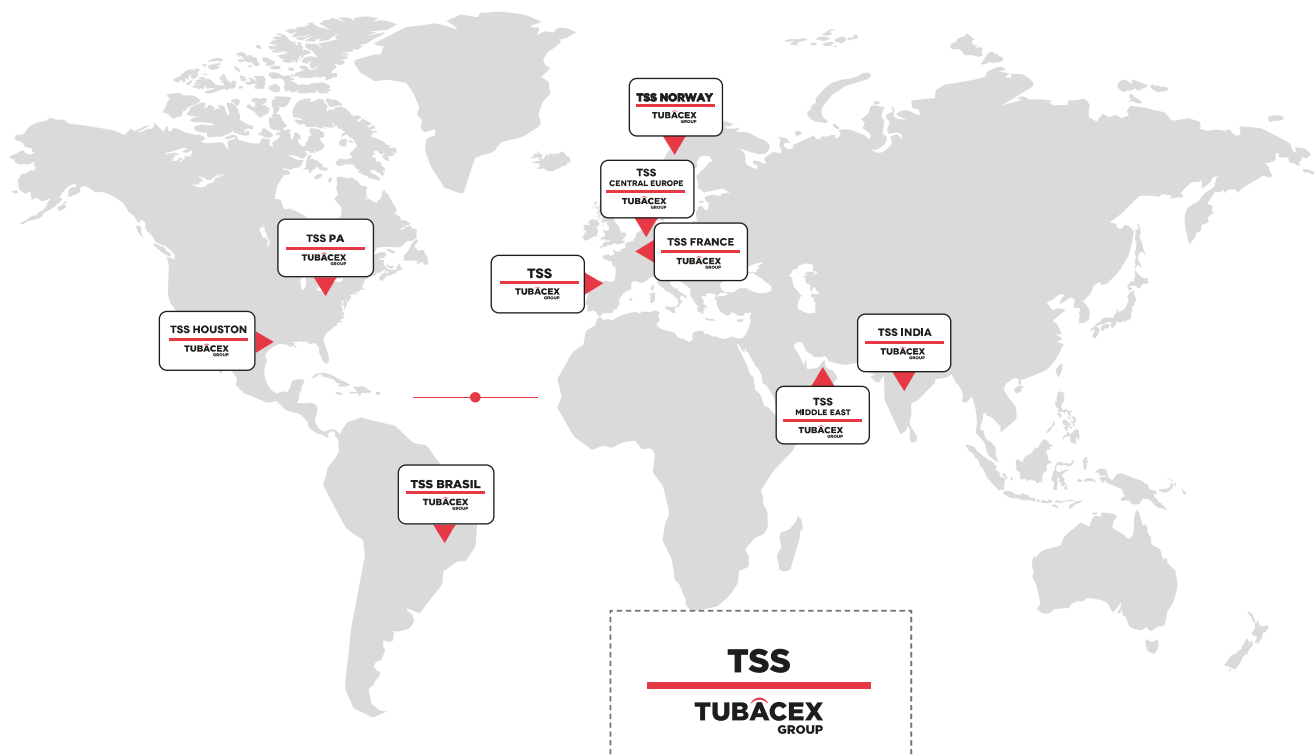


## TSS, THE LARGEST GLOBAL MASTER DISTRIBUTOR OF STAINLESS STEEL TUBULAR PRODUCTS

TUBACEX Group has reinforced its global leadership on the distribution market increasing its value proposal through TUBACEX Service Solutions (TSS), a master distributor capable of offering its distributor clients a wide range of products in stock with full availability anywhere in the world, as well as an array of high value-added services.

Thus, TSS joins a business group with experience in the manufacturing of seamless stainless steel and high alloy tubular products, making the most of the synergies already in place at the Group production plants worldwide to improve customer service. Thanks to this, TSS can guarantee immediate availability, quality and service as well as an array of competitive advantages oriented to reducing its clients' operative costs.

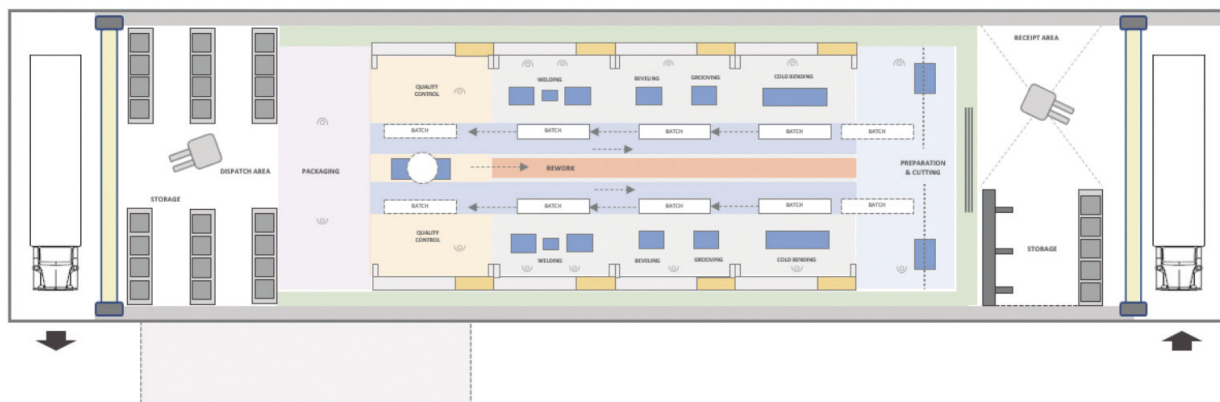
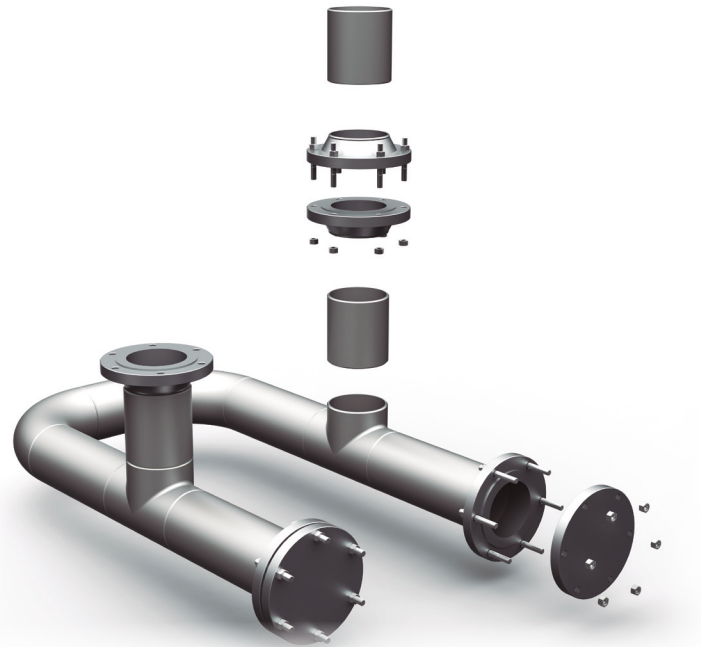
As master distributor, TSS brings TUBACEX's constantly growing product and service portfolio closer to clients, while significantly promoting services offered to them.



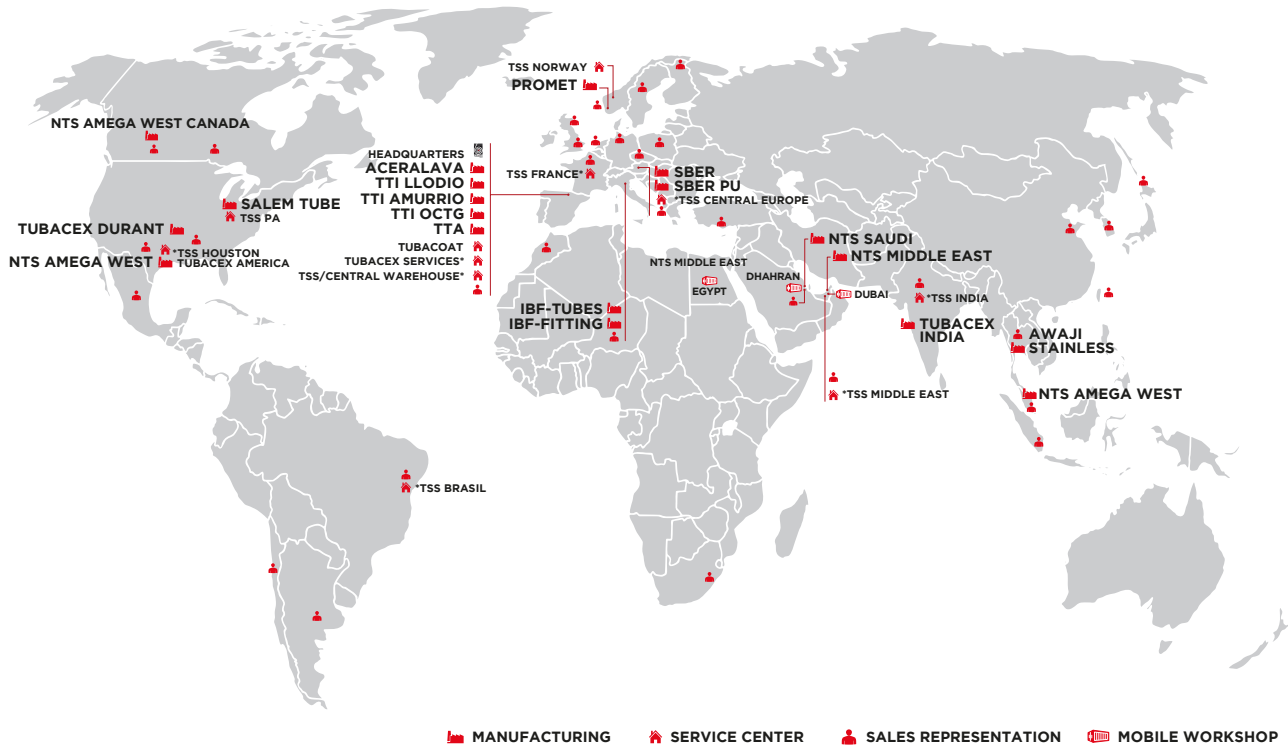


## INDUSTRIAL SOLUTIONS

- Spooling plants for serial production.
- The development of the hydrogen economy needs industrial production of equipment at scale. Only a high level of optimization in design and production will allow a substantial reduction of costs.
- Tubacex can be part of the scaling-up process by investing into highly automated lines to fabricate the tubular components needed for electrolyzers or other equipment.



# TUBACEX AROUND THE WORLD



Currently the Tubacex Group is exporting into more than 100 countries worldwide from its manufacturing sites and warehouses. The company has 15 commercial offices and a wide network of agents in several countries that lead to a global presence.

## MANUFACTURING COMPANIES

**Acería de Álava, S.A.**  
STEEL MELTING SHOP  
Amurrio. SPAIN

**Tubacex Tubos Inoxidables, S.A.**  
HOT EXTRUSION PLANT  
Llodio. SPAIN  
COLD FINISHING PLANT  
OCTG FINISHING PLANT  
Amurrio. SPAIN

**Schoeller Bleckmann  
Edelstahlrohr, GmbH**  
COLD FINISHING PLANT  
HOT EXTRUSION PLANT  
SPECIAL TUBE PLANT  
Ternitz. AUSTRIA

**Salem Tube, Inc.**  
COLD FINISHING PLANT  
Greenville. PA. USA

**Tubacex Durant**  
COLD FINISHING PLANT  
Durant. OK. USA

**IBF, S.p.a.**  
TUBES DIVISION  
Vituone - Milano. ITALY  
FITTINGS DIVISION  
San Nicolò - Piacenza. ITALY

**Tubacex Prakash**  
COLD FINISHING PLANT  
Umbergaon - Gujarat. INDIA

**Tubacex Awaji**  
STAINLESS FITTINGS  
Amphur Muang-Samutprakarn.  
THAILAND

**Tubacex Taylor Accesorios, S.A.**  
BUTT WELDING FITTINGS  
Arzeniega. SPAIN

**Tubacex Services, S.L.**  
TUBE FINISHING SERVICES  
Santander. SPAIN

**Tubacoat**  
CERAMIC TUBE COATING  
Santander. SPAIN

**NTS Group**  
MACHINED PARTS  
MANUFACTURING & REPAIR  
UAE  
USA  
CANADA  
SINGAPORE  
NORWAY  
SAUDI ARABIA

## SERVICE & DISTRIBUTION COMPANIES

**Tubacex Service Solutions, S.A.**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Amurrio. SPAIN

**Tubacex America, Inc. /  
TSS Houston**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Houston. UNITED STATES

**Metaux Inox Services, S.A.S. /  
TSS France**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Satolas & Bonce. FRANCE

**TSS Central Europe**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Ternitz. AUSTRIA

**TSS Brasil**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Sao Paolo. BRAZIL

**TSS India**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Gandhidham. INDIA

**TSS Middle East**  
STAINLESS STEEL LONG PRODUCTS  
DISTRIBUTION  
Dubai. UAE

**Tubacex Upstream Technologies**  
OCTG Premium solutions  
Leioa. SPAIN



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