

Duplex Supply Inc.

Email-id: info@duplexsupply.com

Issue Date 01-01-2017 solely for the addressee, the information is legally privileged and all the rights reserved by our firm no duplications of this site or information is permitted to anyone.





Introduction

Duplex Supply Inc. are the Ace suppliers of Stainless Steel Tubes over the past decapod. We are one of the major brands in steel industry. Duplex Supply Inc. specializes in various forms of duplex, super alloys, stainless in form of tube, pipe4, plate, flanges, sheets, valves etc. Duplex Supply Inc. are the most cultivated and out-breaking makers of nickel based alloys. We go with the saying "Customer is king" thus we make our Clients buying feel worthy and remarkable. We present customers in various countries for all size demand. The main Ambition of the firm is to provide commodities of matchless Quality because we strongly believe in Consumer Satisfaction. In Today's Market industries have become very low quality suppliers which creates Hollow in what Steel Industry needs. Stainless Steel tubes are one of our fastest selling products. Due to such Junctures it results in decline of Quality Goods. But today our firm is one of the finest Organization in Industry, Which makes us Isolated in such a Competitive Industry. Our Product Durability and Dependability has made us one of the best brands. Because of such service our clients put forward us to other prospectors which is more than enough to prove our alterity in alloy industry. Stainless steel tubes that we supply are one of the highest ranking product in our quality products list. We are known to the true essence of industry which makes us sound efficient for calibrating precise needs and demands of our customers. We are a perfect for giving a tremendous scope of materials, from our stock, to suit your necessities from various Industries. From exceedingly specific non-standard material to off the rack products, from low essentials to factory runs, Duplex Supply Inc. has the experience to understand your most heavy requirements. We have always kept our Vision clear which serves best in accomplishing our mission. We rectify the changes required in industry with changing time and keep getting Major Control over the quality of our product. With the changing period of time we have always progressed day by day and our product quality has always remain finest. Our product have such impact on our customers that it brings us new customers as well but the clients who once purchased from us always revert back to us for their purchases.





Contents

- Product
 - Application
 - Materials
 - Quality
 - Why client choose us?
 - Production
 - Production
 - Packaging & Documentation
 - About Duplex Supply Inc.





Product

Stainless Steel tubes are often used in applications that require rigid materials for potable water conveyance. Manufacturers select Stainless steel tubes because certain manmade materials have unwanted or unknown exposure effects while stainless steel has many desirable qualities for maintaining clean water. Stainless steel tubes can also be used for structural support in buildings and vehicles. The terms "tube" and "pipe" are generally interchangeable, although technically, "tube" implies heightened engineering qualities. Tubes are generally manufactured based on standardized sizes.

Manufacturing of Stainless Steel Tubes

There are three main methods of manufacturing Stainless Steel Tubes that lend their names to tubing classifications.

- <u>Seamless</u> Seamless tubes are produced through extrusion. Extruded tubes can be formed in a hot or cold process. Long sections of stainless steel bar are forced through a die that blocks out the intended shape of the tube.
- As-welded or electric resistant welded (ERW) This method involves passing a rolled sheet of Stainless steel through two weld rollers. The weld rollers have a groove around their circumference, through which the metal roll passes. There is a contact at the roll seam that transmits electricity at a high enough current to weld the seam closed. The resulting weld is very small.
- Drawn-over-mandrel (DOM) A mandrel is a small piece of metal inserted into the tube to define a shape. It gives the tube extra support to prevent unwanted wrinkling during drawing. The tube is passed through a die that has a smaller diameter than the current tube size. As the tube is drawn, it shrinks to match the size of the die's diameter. This process allows for tight tolerances and specifications.

Each of these manufacturing processes allows manufacturers the ability to form varying tube shapes and sizes. Tubes are not always cylindrical, and can be made in triangle, square or other polygonal shapes. Stainless steel tubes destined for certain applications require extra processes as well. Applications involving hydrogen must be factory pre-cleaned or certified as instrument grade due to hydrogen's reactive characteristics that can cause metal embrittlement or even explosions.

Generally, a stainless steel tube manufacturing process is chosen for its interaction with the type of carbon to be used. Certain types of stainless steel react poorly to heat because of carbon content, so they can't be easily welded. Stainless steel tubes also play a role in decisions regarding use in volatile applications.



Application

Steel tubing is used in high numbers in plumbing applications. The reasons are threefold. One, steel is very sturdy, composed of 80-90 percent of stainless steel and 10-20 percent chromium. Steel tubing can handle the types of pressures exerted by water upon plumbing structures. Additionally, the surface of Steel does not allow for much adherence by particles or bacteria, so purification processes will not pass on unintended detritus.

Stainless steel tubes are also used in a wide variety of structural applications, such as industrial and residential construction. Examples include fences, gates, railings, playground and athletic equipment. Stainless steel is often used for construction tubes over other metals like aluminum when extra stress resistance is necessary. Stainless steel tubes can also be used in automotive applications and even as parts of furniture.



Materials

Stainless steel is an alloy of Iron with a minimum of 10.5% Chromium. Chromium produces a thin layer of oxide on the surface of the steel known as the 'passive layer' which prevents steel from corrosion as much as the increased amount of chromium it gives an increased resistance to corrosion thus the steel used by our company is the steel which contains more amount of chromium in it which keeps our products lifelong which enhances the consumer satisfaction with our product. Materials that we use are highly Qualitative which acts like a feather on a cap for our brand. Stainless steel also contains varying amounts of Carbon, Silicon and Manganese. Other elements such as Nickel and Molybdenum are added to impart other useful properties such as enhanced formability and increased corrosion resistance. Stainless steel is considered a versatile material. It was initially used in cutlery and soon it was used in almost all chemical industries because of its corrosion resistant characteristics. Today corrosion resistance is a requirement in almost all industries and slowly but steadily the mechanical characteristics of stainless steel are being recognized. There are 4 types of stainless steel 1.Ferritic Stainless steel, 2.Martensitic stainless steel 3.Duplex Stainless Steel and lastly 4. Austenitic stainless steel these divisions are made depending on their microstructure at room temperature.

- 1. Ferritic stainless steel consists of Low carbon and nickel, they are good corrosion resistant, they have good weldability and toughness and also are magnetic
- 2 .Martensitic Stainless steel have high strength, are limited corrosion resistant and are magnetic.
- 3. Duplex Stainless steel is very lightweight, have high proportion of strength and toughness and have very good corrosion resistance.
- 4. Austenitic Stainless steel have good creep resistance, good to excellent corrosion resistance and also have good weldability and formability.

We use the best out of these to keep our products life long run. We are backed by all the premium certifications including ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, CE-PED 97/23/EC certifications. Our manufacturing is at par with the ASIM, ASME, ANS & DIN standards. We not only rely on in-house analyzing of products but we also have 3rd party knotted with us for analyzing our products quality. As a result of this we are proud to affirm a 0% rejection rate of all Stainless steel tubes distributed in over a decade. Our customers are fond of working with us competitive pricing on our stainless steel product makes us one of the dynamic distributors in industry. We also serve to clients on what they oblige as a customization work done by us. We are obligated to instant delivery of Stainless steel tubes and also have same day shipping of all goods, this is made possible because we have bulkiest stock in the country of finished as well as unfinished Stainless steel tubes. All Stainless steel tubes are made in accordance with ASTM standards. Our products are tested under the highest of pressures to nail down very high pressure sustainability of our product. Duplex Supply Inc. ensures that the materials we use are of A-1 Quality which makes our customer feel delighted to use our products.



Quality

Duplex Supply Inc. strongly has characteristic Quality control over all our products and our esoteric work quality and product quality makes us one of the top manufacturers in Industry. We provide Best Quality Stainless Steel Tubes. Quality is our peak concern. We sustain high Quality Standards through our Committed Personnel and Sound Infrastructure. Not even a single fitting is left without a 3 layer inspection of chemical test, mechanical test, visual inspection, dimension inspection, pressure test, gauge test and conformity to the order. Quality Assurance System is beaconed by Axioms that support our work culture which hooks in respect, self-administration, imaginativeness and self-articulation. Duplex Supply Inc. is backed by all the possible certifications of a world class mill including ISO 9001:2008, 14001:2007, OH-18001: 2004 & SAS CE-PED 97/23/EC. We are also members of various renowned agencies and Chambers of Commerce including MASSMA, EEPC, FICCI, FIEO, Indian Merchants Chamber etc.



We Strain To always act with pro-

bity and Honesty.

We Aim To be Paramount in our Industry.

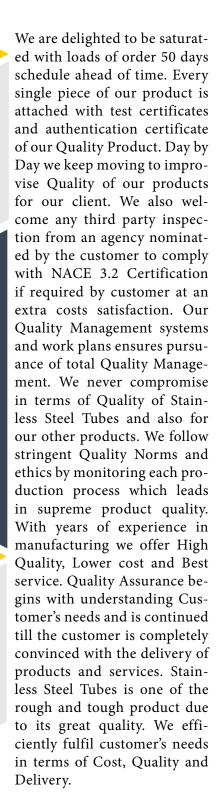
We do our absolute best to esteem our commitments.

We are Highly Con-

cerned about our

tions.

customer's expecta-







Why Clients Choose us?

Our clients have their trust in us and our Products because Duplex Supply Inc. is the most popular vendor of Stainless Steel Tubes. We uniformly export our products to all the 5 continents in the world. Stainless Steel Tubes are supplied majorly in Middle Eastern countries. Our all products are of marvelous quality. We have always followed saying of "Customer is king" for us and their satisfaction is what we aim for. Product replacement warranty is given. Our products can sustain high pressure. As of 2015, we stocked 500 tons of Stainless Steel Tubes, highest in the country. With Duplex Supply Inc. you get un-comparable buying experience of products made from best raw materials. We execute both small and bulk orders. Every 4 months a 3rd party inspection is conducted.

Customer is king

Duplex supply Inc. furnishes MTC with EN10204 NACE 3.1, NACE 3.2 specifications. All clients are provided with a copy of the same. Duplex Supply Inc. have the distributor in more than 15 countries. With ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 certificate We are majestic manufacturer and exporter of Stainless Steel Tubes. Duplex Supply Inc. has emerged to become the most trusted company in several European, African and gulf based companies.

even when it comes to the packing of our products for sea as well as air transport. Also, the raw material taken for manufacturing is of the highest grade. Our specialized logistic team focuses on delivering the first model, which provides for instant dispatch against the receipt of bank transfer copy. At competitive pricing, Duplex Supply Inc. has become the ultimate destination of Stainless Steel Tubes buyers Duplex Supply Inc. is looking forward to providing you with your specialty metal needs. Also the Customization we do on personal demand of customers gets us client satisfaction and our high quality products with flexible pricing makes us admired by our clients our clients feel delighted in buying our products and consumer satisfaction in itself is the biggest achievement for our firm.

No compromises are made

Technical Details

	Chemical Composition of Stainless Steel 304, %										
	С	Mn	Si	P	S	Cr	Mo	Ni	N	Fe	Other
Min	-	-	-	-	-	18	-	8	-	-	-
Max	0.08	2	0.75	0.045	0.03	20	NA	12	0.1	Bal.	NA

	Chemical Composition of Stainless Steel 316, %										
	С	Mn	Si	P	S	Cr	Mo	Ni	N	Fe	Other
Min	-	-	-	-	-	18	2	8	-	-	-
Max	0.08	2	0.75	0.045	0.03	20	3	12	0.1	Bal.	NA

Mechanical Properties of Stainless Steel 304						
UTS Min (MPA)	515					
Yield Min (MPA)	205					
Elongation MIn (%)	35					
Hardness Max (HRB)	90					
Heat Treatment	1000 - 1100°C					

Mechanical Properties of Stainless Steel 316					
UTS Min (MPA)	515				
Yield Min (MPA)	205				
Elongation MIn (%)	35				
Hardness Max (HRB)	90				
Heat Treatment	1000 - 1100°C				

Packaging & Documentation





The metal, alloy or more often, tube has been around since 1841. As a testimony to its versatility and resilience, it is now packaged throughout the world with production in excess of a half billion pieces per year in the United States alone. Production Process of Stainless steel tubes starts with what is called a Steel blank. It is fed into a set of tools in the die which then dismiss it. This dismissed press then roughly forms a completed tube form. The next step is to dapper the tube to the specified length on both the top and bottom ends. At this point, the tube is threaded which accredits us to screw on the cap. During dispersion, Stainless steel becomes work hardened so during the next step, it is passed through a process which makes the metal malleable. This is done at about 460 degrees centigrade and then Stainless Steel tubes are taken to another step of production. The next step, which is used primarily in the industry, is the spray application of an insight lining. This acts as barrier protection for metal sensitive products between the exposed alloy and the pharmaceutical, or other product, to be packaged.

If the tube is not internally coated, it will bypass the insight lining step and go to the next step which is the crust rolling of a base coat onto the tube. This crust prepares the tube for the application of offset printing. The base crust is then cured and brought back to a printing machine which puts on the customer's specified colors and copy. You can see all these tubes detailed for the different customers who require different types of personalization. Tubes for some products require a fold sealant that acts as a barrier to prevent product seepage from the fold end of the tube. The final step in the production of Stainless Steel tubes are the capping operation. And, again, customers generally command the types of styles and caps that they like. Primarily, four different materials -- are used as cap material. Stainless Steel Tubes are then checked, packed in boxes, inspected and loaded either into cartons or on skids for final shipment to the customer.















Duplex Supply Inc. provide the certificate of origin legalized/attested by the chamber. Also, a commercial invoice including HS code is provided. Our product packing lists which come with the product includes a number of boxes, net weight, and gross weight. We provide test certificate certifying NACE MRO103, NACE MR0175. During Delivery of Stainless steel Tubes To our clients, Along with this, a raw material test report is provided as well. Our laboratory reports that are NABL approved also is provided to our loyal customers. Other reports like raw material reports, heat treatment charts and letter of guarantee is also provided by Duplex Supply Inc. We provide a free sample kit for all clients against purchase order copy for quality approval free of cost. Request your free sample kit now and get your personalized orders at tip of your We offer price basis depending on your requirements. It can be based on previous works, FOB Nhava sheva, CFR, CIF, CPT your destination port or your door to door delivery duty which can be paid or unpaid finger by ordering it online.





About Duplex Supply Inc.

Duplex Supply Inc. is a privately held stockiest supplier and manufacturer of various alloy and metal products, the head office is located in Mumbai. DSI is committed to provide merit quality serviceability to all its customers with the minimal lead time.

Duplex supply Inc. provides shipping for all over global Customers. DSI has made noteworthy impact in metal Industry. With Duplex Supply Inc. you get un-comparable buying experience of products made from best raw materials. Duplex Supply Inc. has emerged to become the most trusted company in Indian market and in several European, African and gulf based companies. Duplex Supply Inc. is backed by all the possible certifications of a world class mill including ISO 9001:2008, ISO 14001:2007, OHSAS 18001: 2004 & CE-PED 97/23/EC.

"Your wish we Accomplish, You Demand we Deliver"



OUR MISSION

Our Aim is At Business Excellence through Higher business ethics and standards, Optimum use of resources, Spirit of Entrepreneurship.



OUR PRECISION

We are very Accurate from our Production System to our Delivery System we handle all our goods very precisely. We precisely fulfill all our promises to the clients and make sure that they have no complaints regarding our products.



OUR VISION

To provide best Quality products and service to our Clients and fulfilling their demands beyond their expectations and to be globally esteemed organization.





info@duplexsupply.com www.duplexsupply.com

We Look Forward to Hearing From You...

After knowing about all the information above mentioned regarding our products we look forward a hearing from you regarding any Queries and Orders we are delighted to serve all our customers the existing ones and also we welcome our new customer orders. We assure that our products will never disenchant you.









