



Hastelloy c276 Tubes

Prepared for :

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Statement of Confidentiality:

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Introduction

Duplex Supply Inc. are the suppliers of Hastelloy c276 tubes over the past decade. We are one of the in-competitive brands in alloy industry. We go with the saying “Customer is king” thus we make our Clients buying feel esteemed and exemplary. Hastelloy c276 Tubes manufactured by Duplex Supply In. are one of the best-selling products under our product list Today, our industry is filled with high volume but low-quality suppliers which are below the line with what the industry requires .Because of such situations, it results in lapse of the quality of goods and hence, the entire project. We also look after it that our industrial Hazards are dumped appropriately and not polluting the environment also we have such procedures in factory by which the harm-full chemicals are directly ventilated which doesn't harms environment and houses located around our factory. We present customers in various countries for all size demand. We have always kept our Vision clear which serves best in acquiring our mission. We modify the changes required in industry with changing time and keep getting superior Control over the quality of our product. The main aim of this organization is to provide commodities of determined quality, in addition to making our client's buying experience world-class and a memorable one. Today our firm is one of the admirable Organization in Industry, Which makes us secluded in such a Competitive Industry. Our Product Reliability and performance has made us one of the top brands. Because of such service our clients recommend us to other prospectors which is more than enough to prove our distinction in alloy industry. Duplex Supply Inc. Works in consideration of Clients, Environment and best Quality we do no compromise in these matters. We bring in tremendous experience to the industry.



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Product

Hastelloy c276 Tubes are often used in applications that require rigid materials for potable water conveyance. Manufacturers select Hastelloy c276 Tubes because certain manmade materials have unwanted or unknown exposure effects while Inconel has many desirable qualities for maintaining clean water. Hastelloy c276 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 Hastelloy c276 Tubes

There are three main methods of manufacturing Hastelloy c276 Tubes that lend their names to tubing classifications.

- **Seamless** - Seamless Hastelloy c276 Tubes are produced through extrusion. Extruded tubes can be formed in a hot or cold process. Long sections of Inconel 600 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 Inconel 600 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. Hastelloy c276 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, an Inconel 600 tube manufacturing process is chosen for its interaction with the type of carbon to be used. Certain types of Inconel 600 react poorly to heat because of carbon content, so they can't be easily welded. Hastelloy c276 Tubes also play a role in decisions regarding use in volatile applications.



Application

Hastelloy c276 tubing is used in high numbers in plumbing applications. The reasons are three-fold. One, Hastelloy c276 is very sturdy, composed of 80-90 percent of Hastelloy c276 alloy and 10-20 percent chromium. Hastelloy c276 tubing can handle the types of pressures exerted by water upon plumbing structures. Additionally, the surface of Hastelloy c276 Tubes does not allow for much adherence by particles or bacteria, so purification processes will not pass on unintended detritus.

Hastelloy c276 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. Hastelloy c276 Tubes are often used for construction tubes over other metals like aluminum when extra stress resistance is necessary. Hastelloy c276 Tubes can also be used in automotive applications and even as parts of furniture.



Materials

Principal Design Features	C-276 is a wrought corrosion-resistant alloy. A prime advantage of this alloy is that it generally does not require solution heat treatment after welding. It resists the formation of grain boundary precipitates that would degrade corrosion resistance.
Applications	Chemical process equipment and desulfurization of flue gas equipment.
Machinability	Good machinability, although the alloy work hardens as is true of the nickel base alloys in general.
Forming	Can be cold worked by all conventional methods.
Welding	Weld able by all common methods except that excessive heat input should be avoided. Can be used in the "as-welded" condition without further heat treatment for most corrosive applications.
Heat Treatment	Solution heat treatment is done at 2050 F followed by a rapid quench. The alloy is supplied in this condition. If hot forming or forging is done then the parts should be solution heat treated, if possible, before use.
Forging	The alloy can be forged or hot-upset by conventional means.
Hot Working	Can be hot formed or extruded. Should be solution heat treated following hot forming.
Cold Working	Readily cold worked by conventional methods.
Annealing	Normally supplied and use in the solution treated condition, a 2050 F soak followed by rapid quench.
Aging	Not normally done. The alloy is used in solution treated condition.
Tempering	Not applicable to this alloy.
Hardening	Not harden able by heat treatment. The alloy does harden due to severe cold working.
Other Physical Props	V-notch impact strength is 260 ft. lbs. at 70 F and at minus 320 F.



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 Hastelloy c276 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 beacons by Axioms that support our work culture which hooks in respect, self-administration, imaginative-ness and self-articulation. Duplex Supply Inc. is backed by all the possible certifications of a world class mill including ISO 9001:2008, ISO 14001:2007, OH-SAS 18001: 2004 & 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 are Highly Concerned about our customer's expectations.



We Strain To always act with probity and Honesty.

We Aim To be Paramount in our Industry.



We do our absolute best to esteem our commitments.

We are delighted to be saturated with loads of order 50 days schedule ahead of time. Every single piece of our product is attached with test certificates and authentication certificate of our Quality Product. Day by Day we keep moving to improve Quality of our products for our client. We also welcome any third party inspection from an agency nominated by the customer to comply with NACE 3.2 Certification if required by customer at an extra costs satisfaction. Our Quality Management systems and work plans ensures pursuance of total Quality Management .We never compromise in terms of Quality of Hastelloy c276 Tubes and also for our other products. We follow stringent Quality Norms and ethics by monitoring each production process which leads in supreme product quality. With years of experience in manufacturing we offer High Quality, Lower cost and Best service. Quality Assurance begins with understanding Customer's needs and is continued till the customer is completely convinced with the delivery of products and services. Hastelloy c276 Tubes is one of the rough and tough product due to its great quality. We efficiently fulfil customer's needs in terms of Cost, Quality and Delivery.



Why Clients Choose us ?

Our clients have their trust in us and our Products because Duplex Supply Inc. is the most popular vendor of Hastelloy c276 Tubes. We uniformly export our products to all the 5 continents in the world. Hastelloy c276 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 Hastelloy c276 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 Hastelloy c276 Tubes. Duplex Supply Inc. has emerged to become the most trusted company in several European, African and gulf based companies.

No compromises are made 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 Hastelloy c276 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.



Technical Details

Chemical Composition, %													
	C	Mn	Si	P	S	Cr	Mo	Ni	N	Fe	Co	W	V
Min	-	-	-	-	-	14.5	15	57		4	-	3	
Max	0.01	1	0.08	0.04	0.03	16.5	17	-	NA	7	2.5	4.5	0.35

Mechanical Properties	
UTS Min (MPA)	690
Yield Min (MPA)	283
Elongation MIn (%)	40
Hardness Max (HRB)	95
Heat Treatment	870°C - 1230°C



Production

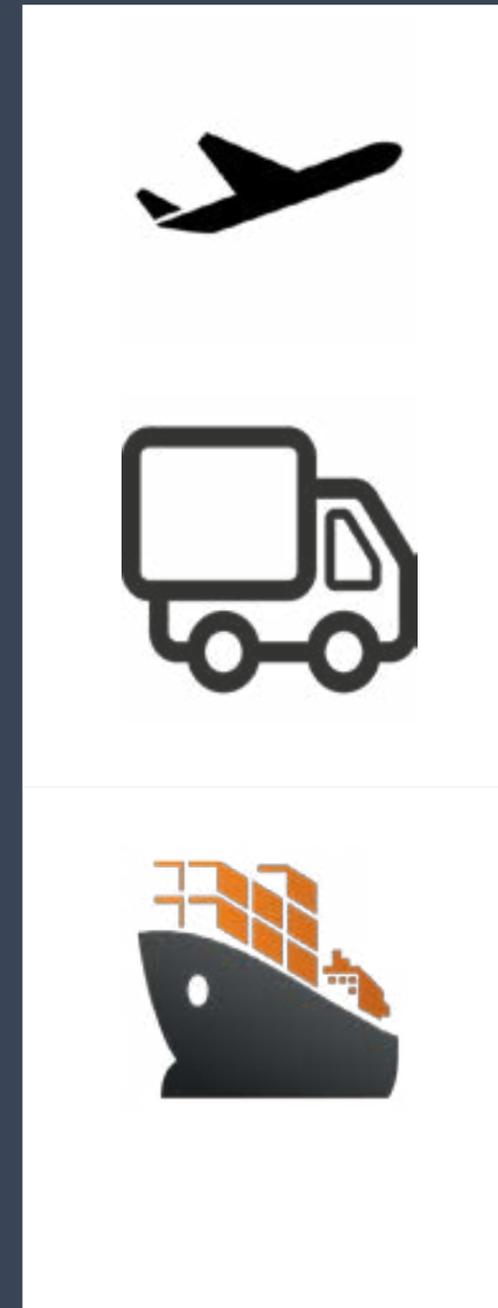
The metal, alloy or more often, tube has been around since 1841. As a testimony to its versatility and resilience, it is now packaged throughout the world with production in excess of a half billion pieces per year in the United States alone.

Production Process of Hastelloy c276 Tubes starts with what is called a 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 too 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, Inconel 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 Hastelloy c276 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 Hastelloy c276 Tubes is 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. Hastelloy c276 Tubes are then checked, packed in boxes, inspected and loaded either into cartons or on skids for final shipment to the customer.



Packaging & Documentation



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 the delivery of Hastelloy c276 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. Our Hastelloy c276 Tubes are packaged in such a way that no damage is caused during the time of delivery. 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.



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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.



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