



ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd
stainless-steelseamlesspipe.com



Astm A564 Welded Seamless Pipe Uns S17400/17-4ph/630 Smls For Valves And Gears

Our Product Introduction

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Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: 630
- Minimum Order Quantity: MOQ500kg
- Packaging Details: Seaworthy Standard Package
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: L/C, D/P, T/T, Western Union
- Supply Ability: 5000 Ton/Tons per Month



Product Specification

- NPS: 1/8"-24"
- Grade: 630 Stainless Steel
- Wall Thickness: SCH10S, SCH40, SCH XS, SCH 60, SCH80S, SCH12020, SCH1160, SCH
- Delivery Time: 15-21 Days
- Application: Valves And Gears, Engine Components, High Strength And Boat Propeller Shafts, Plastic Moulding Dies
- Section Shape: Round
- Finished: Annealing Pickling, Bright Annealing
- Price Term: FOB CIF CFR EXW Etc.
- Highlight: **Welded Seamless Pipe For Valves, S17400 Stainless Steel Pipe, Astm A564 Stainless Steel Pipe**



Product Description

Overview

630 stainless steel, also known as 17-4 PH or 17-4 Precipitation Hardening steel, is a martensitic stainless steel containing approximately 15–17% chromium and 3–5% nickel. Due to its precipitation-hardening characteristics, it has excellent corrosion resistance and superior strength at high hardening depths. It can be used in applications requiring good mechanical properties at elevated temperatures up to 600°F (316°C).

One of the key benefits of this grade is that it is available in solution treated conditions, at which they can be easily machined and age-hardened to attain high strength. The age treatment of grade 630 is carried out at low temperatures, to avoid significant distortion. Therefore, this grade is used for applications such as the manufacture of long shafts that do not require re-straightening after heat treatment.

Chemical composition

Grade	C	Mn	Si	P	S	Cr	Ni	Cu	Nb+Ta
630	-	-	-	-	-	15	3	3	0.15
	0.07	1	1	0.04	0.03	17.5	5	5	0.45

Mechanical Properties

Condition	Tensile Strength (MPa)	Yield Strength 0.2% Proof (MPa)	Elongation (% in 50mm)	Hardness	
				Rockwell C (HR C)	Brinell (HB)
Solution Treated	1105 typ	1000 typ	15 typ	38 max	363 max
Condition 900	1310 min	1170 min	10 min	40 min	388 min
Condition 1150	930 min	724 min	16 min	28 min	277 min

Physical Properties

Grade	Density (kg/m ³)	Elastic Modulus (GPa)	Mean Co-eff of Thermal Expansion (µm/m/°C)			Thermal Conductivity (W/m.K)		Specific Heat 0-100°C (J/kg.K)	Elec Resistivity (nΩ.m)
			0-100°C	0-315°C	0-538°C	At 100°C	At 500°C		
630	7750	197	10.8	11.6	—	18.4	22.7	460	800

Application

1. Aerospace field: For the manufacture of aircraft engines and oxidation products and high-pressure gas corrosive environment.
2. Automotive manufacturing: For the manufacture of brake and suspension parts and other parts.
3. Medical equipment: used to manufacture large bone scaffolds, artificial joints and artificial heart valves.
4. Oil and gas extraction: Used to manufacture pipe and valve materials, which are used in oil production environments due to their corrosion resistance and high temperature strength.
5. General machinery manufacturing: used to manufacture high-load pump parts, valves, springs, clasp rings, etc.

Corrosion Resistance

Grade 630 stainless steels have good corrosion resistance in many environments. They exhibit improved resistance against stress corrosion cracking, if aged at 550°C or more. However, grade 630 steels are less resistant to solution treated Condition A.

Heat Resistance

Grade 630 stainless steels have good resistance to oxidation. However, long-time exposure of grade 630 to temperatures of 370 to 480°C should be avoided, to prevent loss of toughness at ambient temperature. These grades should not be used at temperatures above age-hardening temperature, to avoid reduction of hardness and mechanical properties of the metal.

Why choose us

1. Size control
2. Chemical composition control
4. ultrasonic testing of steel tube
3. hydraulic testing machine

Package detail



Shipping



1. Packing type: Carton and wooden case, also be packaged according to customer requirements.
2. Modes of transportation: by sea, by air or land transportation, of course, a small amount can also be by Express.



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