

Application Range Of Stainless Steel Tubes



Austenitic Steel

TP304	General-purpose stainless steel with good corrosion resistance for most applications. Used for: Bar rails, Boat railings, Canopy supports, Chemical processing equipment, Chemical tubing, Column covers, Duct works, Feed-water tubes, Food preparation equipment, Food processing equipment, Heat exchanger tubes, Hypodermic needles, Ladders, Mechanical and structural components, Pharmaceutical processing equipment, Piping systems, Railings (architectural), Traffic barriers, Water pipes.
TP304H	Higher carbon content than 304L, for increased strength, particularly at elevated temperatures.
TP304L	Chemical plant and food processing equipment, where freedom from sensitisation is required in plate thicknesses.
TP316/316L	Used where higher corrosion resistance is required. Boat railings, Canopy supports, Chemical tubing, Column covers, Duct works, Feed-water tubes, Food preparation equipment, Food processing equipment, Heat exchanger tubes, Hypodermic needles, Ladders, Mechanical and structural components, Pharmaceutical processing equipment, Piping systems, Railings, Street (urban) furniture, Textile tubing, Traffic barriers, Water pipes.
TP316H	Similar oxidation resistance to TP316. Main areas of application: Heat exchangers, furnaces, chemical and petrochemical plant.
TP321	Heat exchanger tubing, Chemical processing tubing, Pressure tank tubing. Suitable for heat resisting applications to 800°C.
TP321H	This is the high carbon version of TP321 which ensures greater creep resistance. Behaves much the same as TP321 in oxidation resistance. Main applications: Heat exchangers, furnaces, boilers in chemical and petrochemical plant.
TP316Ti	A titanium stabilized version of 316 used where good resistance to intergranular corrosion and high temperature strength is required.
TP317	Chemical processing tubing, Dyeing equipment, Ink manufacturing equipment, Pulp and paper manufacturing equipment.
1.4828	It is high-temperature steel for service at temperatures of up to 950–1000°C in dry air.
1.4841	It is high-temperature steel with wide application in chemical and petrochemical industries, mechanical engineering. Also widely used in furnace.
TP347HFG	Mainly used for boilers in the thermal power plant, reheaters and superheaters.

Super-Austenitic Steel

TP904L	High resistance to general corrosion in e.g. sulphuric and acetic acids, crevice corrosion, stress corrosion cracking, pitting in chloride bearing solutions.
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Ferritic and Martensitic Steel

TP405	Used for applications where hardening upon cooling from high temperatures must be avoided. Has excellent long-time stability up to 1200°F.
TP410	General purpose grade for use in mildly corrosive environments.
TP430	Mechanical and structural tubing, Architectural tubing, Heat exchanger tubing, Condensers, Re-heaters, Evaporators.

Duplex

S31803	Typically used in heat exchangers, gas scrubbers, fans, chemical tanks, flowlines, marine, and refinery applications.
S32750	Used in oil & gas, chemical process, power industries. At that heat-exchangers are main application.
S31254	With high levels of chromium, molybdenum, and nitrogen is especially suited for high-chloride environments such as brackish water, seawater and other high-chloride process streams.