

手机: 13337883086
 传真: 0519-82076060
 QQ: 732233696
 邮箱: steeltube@foxmail.com

Worldwide Pipe Specifications

API(American Petroleum Institute)

API 5L Line Pipe

API 5CT CASING AND TUBING

API 5D DRILL PIPE

BS(British Standards)

BS534 / Steel Pipes Fittings and Specials for Water and Gas and Sewage

BS778 / Steel Pipes and Joints for Hydraulic Purposes

BS879 / Steel Pipes and Joints for Hydraulic Purposes

(HFS27/HFS35/ERW27/ERW26/HFS27/HFS35/ERW27/ERW26)

BS1139 / Tubes for Use in Scaffolding

BS1387 / Steel Tubes and Tubulars Suitable for Screwing to BS21 Pipe Threads

(DN15/DN20/DN25/DN32/DN40/DN50/DN65/DN80/DN100/DN125/DN150/DN15/DN20/DN25/DN32/DN40)

BS1717 / Steel Tubes for Cycle and Motor Cycle Purposes

(CFSC3/CFSC4/CFSC6/ERWC1/ERWC2/ERWC3/ERWC5/CRWC1/CRWC2/CRWC3/CFSC3/C4)

BS1864 / Stainless Steel Milk Pipes and Fittings

(Gr.1/Gr.2/Gr.3/Gr.4/Gr.5/Gr.6/Gr.7/Gr.8/Gr.9/Gr.1/Gr.2/Gr.3/Gr.4/Gr.5/Gr.6/Gr.7/Gr.8/Gr.9)

BS3059 PART1 / Steel Boiler and Superheater Tubes

(HFS320/CFS320/ERW320/CEW320/HFS320/CFS320/ERW320/CEW320)

BS3059 PART2 / Steel Boiler and Superheater Tubes

(S1 360/S2 360/ERW360/CEW360/S1440/S2 440/ERW440/CEW440/S1 243/S2

243/ERW243/CEW243/ERW620)

BS3600 / Dimensions and Masses Per Unit Length of Welded and Seamless Steel Pipes

and for Pressure Purposes

BS3601 / Steel Pipes and Tubes for Pressure Purposes Carbon Steel with Specified Room

Temperature Properties (BW320/ERW320/ERW360/ERW430/S360/S430/SAW430/BW320/ERW320)

BS3602 PART1 / Steel Pipes and Tubes for Pressure Purposes : Carbon and Carbon Manganese

Steel with Specified Elevated Temperature Properties (HGS360/CFS360/CEW360/HFS430/CFS430/)

BS3602 PART2 / Steel Pipes and Tubes for Pressure Purposes : Carbon and Carbon Manganese

Steel with Specified Elevated Temperature Properties (SAW410/SAW460/SAW410/SAW460)

BS3603 / Steel Pipes and Tubes for Pressure Purposes Carbon and Alloy Steel with

Specified Low Temperature Properties (HFS410LT50/CFS410LT50/ERW410LT50)

BS3604 / Steel Pipes and Tubes for Pressure Purposes Ferritic Alloy Steel with Specified Elevated

Temperature Properties(JFS620-460/CFS620-460/ERW620-460/CEW620-460/HFS620-440/CFS620-440)

BS3605 PART1 / Seamless and Welded Austentic Stainless Steel Pipe and Tubes for

Pressure Purposes(Seamless Pipes With Specified Room Temperature Preperities)

BS3605 PART2 / Seamless and Welded Austentic Stainless Steel Pipe and Tubes for

Pressure Purposes (Welded Pipes With Specified Room Temperature Properties)

BS3606 / Steel Tubes for Heat Exchangers (ERW320/CEW320/CFS320/ERW440/CEW440/CFS440/ERW243)

BS4127 / Light Gauge Stainless Steel Tubes(Round Pipe)

BS4825 / Pipes and Fittings for the Food Industry

BS5242 PART1 / Tubes for Fluid Power Cylinder Barrels (HP1/HP2/HP3/HP4/HP4/HP6/HP1/HP2/)

BS5242 PART2 / Tubes for Fluid Power Cylinder Barrels (HP1/HP2/HP3/HP4/HP4/HP6/HP1)

BS5242 PART3 / Tubes for Fluid Power Cylinder Barrels(for Mining)(HP1/HP2/HP3/HP4)

BS6323 PART2 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose (Hot finished welded steel tubes)

BS6323 PART2 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose(Hot finished welded steel tubes) (Square.Rectangular Pipe)

BS6323 PART3 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Puropese (Hot finished seamless steel tube)

BS6323 PART4 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose (Cold finished seamless tubes)

BS6323 PART5 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose (Electric resistanced welded(including induction welded)steel tubes)

BS6323 PART5 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose (Electric resistanced welded(including induction welded)steel tubes)

BS6323 PART6 / Seamless and Welded steel Tubes for Automobile Mechanical adn General

Engineer Purpose (Cold finished electric resistance welded (including induction welded) steel tubes)

BS6323 PART6 / Seamless and Welded steel Tubes for Automobile Mechanical adn General

Engineer Purpose (Cold finished electric resistance welded (including induction welded) steel tubes)

BS6323 PART7 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose (Submerged arc welded steel tubes)

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电话:13337883086 传真:+86-519-82076060

BS6323 PART8 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose(Longitudinally welded stainless steel tubes)

BS6323 PART8 / Seamless and Welded Steel Tubes for Automobile Mechanical and General

Engineer Purpose(Longitudinally welded stainless steel tubes)

BS6363 / Welded Cold Formed Steel Structural Hollow(34/26 / 43/36 / 50/45 /34/26 / 43/36 / 50/45)

BS7416 / Precision Finished Seamless Cold Drawn low Carbon Steel Tubes for Use in Hydraulic Fluid Power Systems

ASTM(ASTM International)

ASTM A53 / ASME SA53 / Pipe Steel Black and Hot Dipped Zinc Coated Welded and Seamless

ASTM A106 / ASME SA106 / Seamless Carbon Steel Pipe for High Temperature Service

ASTM A134 / ASME SA134 / Pipe Steel Electric Fusion(ARC) Welded(Sizes Nps 16 and Over)1

ASTM A135 / ASME SA135 / Pipe Steel Electric Fusion(ARC) Welded

ASTM A139 / ASME SA139 / Electric Resistance Welded Steel Pipe

ASTM A161 / ASME SA161/ Seamless Low Carbon And Carbon Molybdenum Steel Still Tubes
For Refinery Service

ASTM A178 / ASME SA178 / Electric Resistance Welded Carbon Steel Boiler Tubes

ASTM A179 / Seamless Cold Drawn Low Carbon Steel Heat Exchanger and Condenser Tubes

ASTM A192 / ASME SA192 / Seamless Carbon Steel Boiler Tubes for High Pressure Service

ASTM A199 / ASME SA199 / Seamless Cold Drawn Intermediate Alloy Steel Heat Exchanger
and Condenser Tubes

ASTM A200 / ASME SA200 / Seamless Intermediate Alloy Steel Still Tubes for Refinery Service

ASTM A209 / ASME SA209 / Seamless Carbon Molybdenum Alloy Steel Boiler and
Superheater Tubes

ASTM A210 / ASME SA210 / Seamless Medium Carbon Steel Boiler and Superheater Tubes

ASTM A211 / ASME SA211 / Spiral Welded Steel or Iron Pipe

ASTM A213 / ASME SA213 / Seamless Ferritic and Austenitic Alloy Steel Boiler Superheater
and Heat Exchanger Tubes

ASTM A214 / ASME SA214 / Electric Resistance Welded Carbon Steel Heat Exchanger and
Condenser Tubes

ASTM A216 / ASME SA216 / Carbon Steel Castings Suitable for Fusion for High Temperature
Service

ASTM A226 / ASME SA226 / Electric Resistance Welded Carbon Steel Boiler and Superheater
Tubes for High Pressure Service

ASTM A249 / ASME SA249 / Welded Austenitic Steel Boiler Superheater Heat Exchanger and

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Condenser Tubes

ASTM A250 / ASME SA250 / Electric Resistance Welded Carbon Molybdenum Alloy Steel

Boiler and Superheater Tubes

ASTM A252 / ASME SA252 / Welded and Seamless Steel Pipe Piles

ASTM A254 / ASME SA254 / Copper Brazed Steel Tubing

ASTM A268 / ASME SA268 / Seamless and Welded Ferritic Stainless Steel Tubing For General Service

ASTM A269 / ASME SA269 / Seamless and Welded Austenitic Stainless Steel Tubing for General Service

ASTM A270 / ASME SA270 / Seamless and Welded Austenitic Stainless Steel Sanitary Tubing

ASTM A271 / ASME SA271 / Seamless Austenitic Chromium Nickel Steel Still Tubes for Refinery Service

ASTM A312 / ASME SA312 / Seamless and Welded Austenitic Stainless Steel Pipe

ASTM A333 / ASME SA333 / Seamless and Welded Steel Pipe for Low Temperature Service

ASTM A334 / ASME SA334 / Seamless and Welded Carbon and Alloy Steel Tubes for Low Temperature Service

ASTM A335 / ASME SA335 / Seamless Ferritic Alloy Steel Pipe for High Temperature Service

ASTM A358 / ASME SA358 / Electric Fusion Welded Austenitic Chromium Nickel Alloy Steel Pipe for High Temperature Service1

ASTM A369 / ASME SA369 / Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High Temperature Service

ASTM A376 / ASME SA376 / Seamless Austenitic Steel Pipe for High Temperature Central Station Service

ASTM A381 / ASME SA381 / Metal Arc Welded Steel Pipe for USE with High Pressure Transmission Systems

ASTM A405 / ASME SA405 / Seamless Ferritic Alloy Still Pipe Specially Heat Treated for High Temperature Service

ASTM A409 / ASME SA409 / Welded Large Diameter Austenitic Steel Pipe for Corrosive or High Temperature Service

ASTM A422 / ASME SA422 / Butt Welds in Still Tubes for Refinery Service

ASTM A423 / ASME SA423 / Seamless and Electric Welded Low Alloy Steel Tubes

ASTM A426 / ASME SA426 / Standard Specification for Centrifugally Cast Ferritic Alloy Steel Pipe for High Temperature Service1

ASTM A430 / ASME SA430 / Austenitic Steel Forged and Bored Pipe for High Temperature Service

ASTM A450 / ASME SA450 / General Requirements for Carbon Ferritic Alloy and Austenitic Alloy Steel Tubes1

ASTM A451 / ASME SA451 / Centrifugally Cast Austenitic Steel Pipe for High Temperature Service1

ASTM A452 / ASME SA452 / Centrifugally Cast Austenitic Steel Cold Wrought Pipe for High

Temperature Service

● ASTM A498 / ASME SA498 / Seamless and Welded Carbon Ferritic and Austenitic Alloy Steel Heat-Exchanger Tubes With Integral Fins¹

● ASTM A500 / ASME SA500 / Cold Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes(Round Pipe)

● ASTM A500 / ASME SA500 / Cold Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes(Square . Rectangular pipe)

● ASTM A501 / ASME SA501 / Hot Formed Welded and Seamless Carbon Steel Structural Tubing

● ASTM A511 / ASME SA511 / Seamless Stainless Steel Mechanical Tubing

● ASTM A512 / ASME SA512 / Cold Drawn Buttweld Carbon Steel Mechanical Tubing

● ASTM A513 / ASME SA513 / Electric Resistance Welded Carbon and Alloy Steel Mechanical Tubing

● ASTM A519 / ASME SA519 / Seamless Carbon and Alloy Steel Mechanical Tubing

● ASTM A520 / ASME SA520 / Supplementary Requirements for Seamless and Electric Resistance Welded Carbon Steel Tubular Products for High-Temperature Service Conformigf to ISO Recommendations for Boiler Construction¹

● ASTM A523 / ASME SA523 / Plain end Seamless and Electric Resistance Welded Steel Pipe for High Pressure Pipe Type Cable Circuits

● ASTM A524 / ASME SA524 / Seamless Carbon Steel Pipe for Atmospheric and Lower Temperatures

● ASTM A530 / ASME SA530 / Standard Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe¹

● ASTM A539 / ASME SA539 / Electric Resistance Welded Coiled Steel Tubing for Gas and Fuel Oil Lines

● ASTM A554 / ASME SA554 / Welded Stainless Steel Mechanical Tubing(Round Pipe)

● ASTM A554 / ASME SA554 / Welded Stainless Steel Mechanical Tubing(Square . Rectangular pipe)

● ASTM A556 / ASME SA556 / Seamless Cold Drawn Carbon Steel Feedwater Heater Tubes

● ASTM A557 / ASME SA557 / Electric Resistance Welded Carbon Steel Feedwater Heater Tubes

● ASTM A587 / ASME SA587 / Electric Welded Low Carbon Steel Pipe for the Chemical Industry

● ASTM A589 / ASME SA589 / Seamless and Welded Carbon Steel Water Well Pipe

● ASTM A595 / ASME SA595 / Steel Tubes Low Carbon Tapered for Structural Use

● ASTM A608 / ASME SA608 / Centrifuhally Cast Iron Chromium Nickel High Alloy Tubing for Pressure Application at High Temperature

● ASTM A618 / ASME SA618 / Hot Formed Welded and Seamless High Strength Low Alloy Structural Tubing

● ASTM A632 / ASME SA632 / Seamless and Welded Austenitic Stainless Steel Tubing(Small

Diameter)for General Service

● ASTM A660 / ASME SA660 / Centrifugally Cast Carbon Steel Pipe for High Temperature Service

● ASTM A671 / ASME SA671 / Electric Fusion Welded Steel Pipe for Atmospheric and Lower Temperature

● ASTM A672 / ASME SA672 / Electric Fusion Welded Steel Pipe for High Pressure Service at Moderate Temperatures

● ASTM A688 / ASME SA688 / Welded Austenitic Stainless Steel Feedwater Heater Tube

● ASTM A691/ ASME SA691 / Carbon And Alloy Steel Pipe Electric Fusion Welded for High Pressure Service at High Temperatures

● ASTM A692 / ASME SA692 / Seamless Medium Strength Carbon Molybdenum

● ASTM A714 / ASME SA714 / High Strength Low Alloy Welded and Seamless Steel Pipe
ASTM A727 / ASME SA727 Forgings, Carbon Steel, for piping components with Inherent Notch Toughness¹

● ASTM A731 / ASME SA731 / Seamless and Welded Ferritic Stainless Steel Pipe

● ASTM A733 / ASME SA733 / Standard Specification for Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples¹

● ASTM A771 / ASME SA771 / Austenitic Stainless Steel Tubing for Breeder Reactor Core Components

● ASTM A778 / ASME SA778 / Welded Unannealed Austenitic Stainless Tubular Products

● ASTM A787 / ASME SA787 / Standard Specification for Electric Resistance Welded Metallic Coated Carbon Steel Mechanical Tubing¹

● ASTM A789 / ASME SA789 / Seamless and Welded Ferritic/Austenitic Stainless Steel Pipe for General Service

● ASTM A790 / ASME SA790 / Welded Unannealed Ferritic Stainless Steel Tubing

● ASTM A791 / ASME SA791 / Welded Unannealed Ferritic Stainless Steel Tubing

● ASTM A795 / ASME SA795 / Black and Hot-Dipped Zinc Coated(Galvanized) Welded and Seamless Steel Pipe for Fire Protection USE¹

● ASTM A803 / ASME SA803 / Welded Ferritic Stainless Steel Feed Water Heater Tubes

● ASTM A813 / ASME SA813 / Single or Double Welded Austenitic Stainless Steel Pipe

● ASTM A814 / ASME SA814 / Cold Worked Welded Austenitic Stainless Steel Pipe

● ASTM A822 / ASME SA822 / Seamless Cold Drawn Carbon Steel Tubing For Hydraulic System Service

● ASTM A826 / ASME SA826 / Austenitic and Ferritic Stainless Steel Duct Tubes for Breeder Reactor Core Components

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电话:13337883086 传真:+86-519-82076060

● ASTM A847 / ASME SA847 / Cold Formed Welded and Seamless High Strength Low Alloy Structural Tubing With Improved Atmospheric Corrosion Resistance

● ASTM A851 / ASME SA851 / High Frequency Induction Welded Unannealed Austenitic Steel Condenser Tubes

● ASTM A865 / ASME SA865 / Threaded Couplings Steel Black or Zinc Coated(Galvanized) Welded or Seamless for Use in Steel Pipe Joints1

● ASTM A872 / ASME SA872 / Centrifugally Cast Ferritic/Austenitic Stainless Steel Pipe for Corrosive Environments

● ASTM A908 / ASME SA908 / Stainless Steel Needle Tubing1

ASTM B~ / ASME SB~

- ASTM B111 / ASME SB111 / Copper and Copper Alloy Seamless Condenser Tubes and Ferrule
- ASTM B161 / ASME SB161 / Nickel Seamless Pipe and Tube
- ASTM B163 / ASME SB163 / Seamless Nickel and Nickel Alloy Condenser and Heat Exchanger Tubes
- ASTM B165 / ASME SB165 / Nickel Copper Alloy(UNS N04400) Seamless Pipe and Tube
- ASTM B167 / ASME SB167 / Nickel-Chromium-Iron Alloys(UNS N06600, N06601, N06690, AND N06045) Seamless Pipe and Tube
- ASTM B210 / ASME SB210 / Aluminum and Aluminum-Alloy Drawn Seamless Tubes
- ASTM B234 / ASME SB234 / Aluminum and Aluminum Alloy Drawn Seamless Tubes for Condensers and Heat Exchangers
- ASTM B241 / ASME SB241 / Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube
- ASTM B315 / ASME SB315 / Seamless Copper Alloy Pipe and Tube
- ASTM B337 / ASME SB337 / Seamless and Welded Titanium and Titanium Alloy Pipe
- ASTM B338 / ASME SB338 / Seamless and Welded Titanium and Titanium Alloy Tubes for Condensers and Heat Exchanges
- ASTM B359 / ASME SB359 / Tubes for Condensers and Heat Exchangers Heat Exchanger Tubes with Integral Fins
- ASTM B395 / ASME SB395 / Specification for U-Bend Seamless Copper and Copper Alloy Heat Exchanger and Condenser Tubes
- ASTM B407 / ASME SB407 / Nickel-Iron-Chromium Alloy Seamless Pipe and Tube
- ASTM B423 / ASME SB423 / Nickel Iron Chromium Molybdenum Copper Alloy (UNS N08825 AND N08221) Seamless Pipe and Tube
- ASTM B443 / ASME SB443 / Nickel Chromium Molybdenum Columbium Alloy (UNS N06625)Plate, Sheet, and Strip
- ASTM B444 / ASME SB444 / Nickel-Chromium-Molybdenum-Columbium Alloy(UNS N06628)Pipe And Tube
- ASTM B464 / ASME SB464 / Welded UNS N08020, UNS N08024, and UNS N08026 Alloy Pipe Incoloy 020 = UNS 08020
- ASTM B466 / ASME SB466 / Seamless Copper Nickel Pipe and Tube
- ASTM B467 / ASME SB467 / Welded Copper Nickel Pipe
- ASTM B468 / ASME SB468 / Welded UNS N08020 N08024 and N08026 Alloy Tubes
- ASTM B514 / ASME SB514 / Welded Nickel Iron Chromium Alloy Pipe.
- ASTM B515 / ASME SB515 / Welded UNS N08800 and UNS N08810 Alloy Tubes
- ASTM B516 / ASME SB516 / Welded Nickel Chromium Iron Alloy (UNS N06600), UNS N06025, and UNS N06045 Tubes
- ASTM B517 / ASME SB517 / Specification for Welded Nickel Chromium Iron Alloy(UNS N06600) UNS N06025 and UNS N06045 Pipe
- ASTM B523 / ASME SB523 / Seamless and Welded Zirconium and Zirconium Alloy Tubes
- ASTM B535 / ASME SB535 / Nickel Iron Chromium Silicon Alloys (UNS N08330 AND N08332) Seamless Pipe And Tube
- ASTM B619 / ASME SB619 / Wedded Nickel and Nickel Cobalt Alloy Pipe Hastelloy B-2 = UNS N10665 / Hastelloy C-276 = UNS N10276

- ASTM B622 / ASME SB622 / Seamless Nickel and Nickel Cobalt Alloy Pipe and Tube
- ASTM B626 / ASME SB626 / Welded Nickel and Nickel Cobalt Alloy Tube
- ASTM B658 / ASME SB658 / Seamless and Welded Zirconium and Zirconium Alloy Pipe
- ASTM B668 / ASME SB668 / UNS N08028 Seamless Tubes
- ASTM B673 / ASME SB673 / UNS N08904, UNS N08925, and N8926 Welded Pipe
- ASTM B674 / ASME SB674 / UNS N08904, UNS N08925, and UNS N08926 Welded Tube
- ASTM B675 / ASME SB675 / UNS N08366 and UNS N08367 Welded Pipe
- ASTM B676 / ASME SB676 / UNS N08366 and UNS N08367 Welded Tube
- ASTM B677 / ASME SB677 / UNS N08904, UNS N08925, and UNS N08926 Seamless Pipe and Tube
- ASTM B690 / ASME SB690 / Iron Nickel Chromium Molybdenum Alloys(UNS N08366 AND UNS N09367) Seamless Pipe and Tube
- ASTM B704 / ASME SB704 / Welded UNS N06625 and UNS N08825 Alloy Tubes
- ASTM B705 / ASME SB705 / Nickel Alloy (UNS N06625 and UNS N08825) Welded Pipe
- ASTM B710 / ASME SB710 / Nickel Iron Chromium Silicon Alloy Welded Pipe
- ASTM B729 / ASME SB729 / Seamless UNS N08020, UNS N08026, and UNS N08024 Nickel Alloy Pipe and Tube
- ASTM B751 / ASME SB751 / General Requirements for Nickel and Nickel Alloy Seamless and Welded Tube
- ASTM B775 / ASME SB775 / General Requirements for Nickel and Nickel Alloy Seamless and Welded Pipe
- ASTM B804 / ASME SB804 / UNS N08367 and UNS N08926 Welded Pipe
- ASTM B829 / ASME SB829 / General Requirements For Nickel and Nickel Alloys Seamless Pipe and Tube

JIS(Japan Industrial Standards)

❖ Steel Tubular Products

- JIS G3442 Galvanized Steel Pipes for Water Service (SGPW)
- JIS G3447 Stainless Steel sanitary Pipes (SUS 304TBS/304LTBS/ 316TBS/316LTBS)
- JIS G3448 Light Gauge Stainless Steel Pipes for Ordinary Piping (SUS304TPD/316TPD)
- JIS G3452 Carbon Steel Pipes for Ordinary Piping (SGP)
- JIS G3454 Carbon Steel Pipes for Pressure Service (STPG 370/STPG 410)
- JIS G3455 Carbon Steel Pipes for High Pressure Service (STS 370/STS 410/STS 480)
- JIS G3456 Carbon Steel Pipes for High Temperature Service (STPT370/STPT410/STPT480)
- JIS G3457 Arc Welded Carbon Steel Pipes (STPY400)
- JIS G3458 Alloy Steel Pipes (STPA 12/ 20/ 22/ 23/ 24/ 25/ 26)
- JIS G3459 Stainless Steel Pipes (SUS 304TP/304HTP/304LTP/309TP/309STP)
- JIS G3460 Steel Pipes for Low Temperature Service (STPL 380/STPL 450/STPL 690)
- JIS G3468 Arc Welded Large Diameter Stainless Steel Pipes (SUS304TPY /304LTPY)
- JIS G3469 Polyethylene coated Steel Pipes (P1H /P2S/P1F)

❖ Steel Tubes for Heat Transfer

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|---------------------------------------------------------------------------------------|-------|---------|
| JIS G3461 Carbon Steel Tubes for Boiler and Heat Exchagner (STB 340/STB 410/STB 510) | Stock | Company |
| JIS G3462 Alloy Steel for Boiler and Heat Exchanger Tubes (STBA12/ 13/ 20/ 22) | Stock | Company |
| JIS G3463 Stainless Steel for Boiler and Heat Exchanger Tubes (SUS304TB/304HTB/316TB) | Stock | Company |
| JIS G3464 Steel Heat Exchanger Tubes for Low Temperature Service (STBL380/ 450/690) | Stock | Company |
| JIS G3467 Steel Tubes for Fired Heater (STF 410/STFA 12/ 22/ 23/ 24/ 25/ 26) | Stock | Company |

❖ Steel Tubes for Structural Purposes

JIS G3131 Hot-Roll mild steel plates, sheet and strip (HR Pipe SPHC/SPHD/SPHE)
JIS G3141 Cold-reduced carbon steel sheets and strip(CR Pipe SPCC/SPCD/SPEC)
JIS G3441 Alloy steel tubes for machine purposes (SCr420TK/SCM415TK/418TK/420TK)
JIS G3444 Carbon steel tubes for general structural purposes (STK290/STK400/500/490)
JIS G3445 Carbon steel tubes for machine structural purposes (STKM11A/12A/13A/14A)
JIS G3446 Stainless steel pipes for machine and structural purposes (SUS304TKA)ROUND
JIS G3446 Stainless steel pipes for machine and structural purposes (SUS304TKA)Square.Re.
JIS G3466 Carbon steel Square for general structural purposes (STKR 400/STKR 490)
JIS G3471 Corrugated steel pipes and sections (SCP1R/SCP 1 RS/SCP 2 R/SCP 3 RS/SCP2E)
JIS G3472 Electric Resistance Welded Carbon Steel Tubes for Automobile Structural Purposes
JIS G3473 Carbon Steel Tubes Cylinder Barrels (STC370/STC440/STC510A/STC510B/STC540)
JIS G3474 High Tensile Strength Steel Tubes for Tower Structural Purposes (STKT540/590)
JIS G4051 Carbon steel for Machine Structural Use (S45C Pipe)
JIS A5525 Steel pipes piles (SPS290/SPS400/SPS500/SPS490/SPS540)
JIS A5530 Steel pipe sheet piles (SKY 400/SKY 490)

❖ Steel and Alloy Tubes and Pipes for Special Use

JIS G3429 Seamless Steel Tubes for High Pressure Gas Cylinder (STH 11/STH 12/STH 21..)
JIS G3465 Seamless Steel Tubes for Drilling (STM-C 540/STM-C 640 /STM-R 590/STM-R 690)
JIS G4903 Seamless nickel-chromium-iron alloy pipes (NCF600TP/NCF625TP/NCF690TP)
JIS G4904 Seamless nickel-chromium-iron alloy heat exchanger tubes (NCF600TB/NCF625TB)
JIS C8305 Rigid steel conduits (G 16/G 22/G 28/G 36/G 42/G 54/G 70/G 82)
JIS C8380 Plastic coated steel pipes for cable ways (G16LL/G16LT/G 22LL/G 22LT/G 28LL8LT)
JIS G4805 Seamless Pipe High Carbon Chromium Bearing Steel Pipe (SUJ-2)

DIN(Deutsches Insitut for Normung)

DIN1615 / Welded Circular Unalloyed Steel Tubes Not Subject To Special Requirements

● DIN1626 / Welded Circular Tubes of Non Alloy Steels with Special Quality Requirements
(USt37.0/St37.0/St44.0/St52.0)

● DIN1628 / Welded Circular Tubes of Non Alloy Steels with Very High Quality Requirements
(St37.4/St44.4/St52.4)

● DIN1629 / Seamless Circular Tubes of Non Alloy Steels with Special Quality Requirements
(St 37.0/St 44.0/St 52.0/1.0254/1.0256/1.0421)

● DIN1630 / Seamless Circular Tubes of Non Alloy Steels with Very High Quality Requirements

- (St 37.4/St 44.4/St 52.4/1.0255/1.0257/1.0581)
- ☐ DIN2391-1 / Seamless Precision Steel Tubes (St30Si/St30A1/St35/St45/St52)
 - ☐ DIN2391-2 / Seamless Precision Steel Tubes (St30Si/St30A1/St35/St45/St52)
 - ☐ DIN2393-1 / Welded Precision Steel Tubes
(St28/USt28/RSt28/St34-2/US34-2/RSt34-2/St37-2/USt37-2/RSt37-2/St44-2/St52-3)
 - ☐ DIN2393-2 / Welded Precision Steel Tubes
(St28/USt28/RSt28/St34-2/US34-2/RSt34-2/St37-2/USt37-2/RSt37-2/St44-2/St52-3)
 - ☐ DIN2394-1 / Welded And Sized Precision Steel Tubes
(St28/USt28/RSt28/St34-2/US34-2/RSt34-2/St37-2/USt37-2/RSt37-2/St44-2/St52-3)
 - ☐ DIN2394-2 / Welded And Sized Precision Steel Tubes
(St28/USt28/RSt28/St34-2/US34-2/RSt34-2/St37-2/USt37-2/RSt37-2/St44-2/St52-3)
 - ☐ DIN2395-1 / Rectangular and Square Electric Welded Precision Steel Tubes
 - ☐ DIN2395-2 / Rectangular and Square Electric Welded Precision Steel Tubes (St 34.2/St 37.2/St 52.3)
 - ☐ DIN2395-3 / Rectangular and Square Electric Welded Precision Steel Tubes
 - ☐ DIN2402 Pipelines Nominal Widths Definition Grading Pipework; grading of nominal sizes
 - ☐ DIN2403 Marking of pipes according to fluid transported
 - ☐ DIN2413 Part1 Design of steel pressure pipes
 - ☐ DIN2413 Part2 Design of steel bends used in pressure pipelines
 - ☐ DIN2440 / Steel Tubes Medium Weight Suitable for Screwing (St33.2)
 - ☐ DIN2441 / Steel Tubes Heavy Weight for Suitable for Screwing (St33.2)
 - ☐ DIN2444 / Zinc Coatings on Steel Tubes
 - ☐ DIN2445-1 / Seamless Steel Tubes for Dynamic Loads Hot Finished Tubes Nominal Pressures 100 to 400
 - ☐ DIN2445-2 / Seamless Steel Tubes for Dynamic Loads Basis for Calculation of Straight Tubes
(St 35,4/St 52,4)
 - ☐ DIN2448 / Seamless Steel Pipes and Tubes
 - ☐ DIN2449 / Seamless Steel Pipes and Tubes
 - ☐ DIN2450 / Seamless Steel Tubes in St 35 Dimensions and Range of Application
 - ☐ DIN2458 / Welded Steel Pipes and Tubes
 - ☐ DIN2460 / Steel Pipes for Water Pipelines
 - ☐ DIN2462 / Seamless Tubes Of Stainless Steel (1.4301 / 1.4306 / 1.4311 / 1.4541 / 1.4550 / 1.4401 / 1.4404 / 1.4571)
 - ☐ DIN2463 / Welded Tubes of Austenitic Stainless Steel
(X5CrNi189/X2CrNi189/X5CrNiMo1810/X2CrNiMo1810/X2CrNiMo1812/X5CrNiMo1812/X10CrNiTi189)
 - ☐ DIN2916 Bending Radii for seamless and Welded Steel Tubes
 - ☐ DIN2917 Seamless steel tubes for superheated pipelines and headers
 - ☐ DIN17100 / Steels for General Structural Purposes
(St33/St37.2/USt37.2/RSt37.2/St37.3/St44-2/St44-3/St50-2/St60-2/St52-33/St50-2/St60-2/St70-2)
 - ☐ DIN17102 / Weldable Normalized Fine Grain Structural Steels
(StE255/WStE255/TStE255/EstE255/StE285/WStE285/TStE285/EstE285/)
 - ☐ DIN17119 / Welded Cold Formed Square And Rectangular Steel Tubes for Structural Steel work
(USt 37-2/RSt 37-2/St 37-3/St 44-2/St 44-3/St 52-3/WSt 37-2/WSt 37-3/WSt 52-3)
 - ☐ DIN17120 / Welded Circular Steel Tubes for Structural Steelwork
(USt37-2/RSt37-2/St37-2/St44-2/St44-3/St52-3)

- DIN17121 / Seamless Circular Steel Tubes for Structural Steelwork
(RSt37-2/St37-3/St44-2/St44-3/St52-3)
- DIN17123 / Welded Circular Fine Grain Steel Tubes for Structural Steelwork
(StE225/TStE255/EstE255/StE285/StE355/TStE355/EstE355/StE420/TStE420/EstE420)
- DIN17124 / Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High Temperature Service
(StE255/TStE255/EstE255/StE285/TStE285/EstE285/StE355/TStE355/EstE355/StE420/TStE420/EstE420)
- DIN17172 / Steel Pipes for Pipe Lines for the Transport of Combustible Fluids and Gases
(StE210.7/StE240.7/StE290.7/StE320.7/StE360.7/StE385.7/StE415.7/StE290.7TM/StE207.7TM/StE360.7TM)
- DIN17173 / Seamless Circular Tubes Made From Steels with Low Temperature Service
(TSt35N/TSt35V/26CrMo4/11MnNi53/13MnNi63/10Ni14/12Ni19/X8Ni19)
- DIN17174 / Seamless Steel Tubes for Elevated Temperatures
(TTSt 35 N/TTSt 35 V/11 MnNi 5 3/13 MnNi 6 3/10 Ni 14/12 Ni 19/X 8 Ni
9/1.0356/1.6212/1.6217/1.5637/1.5680)
- DIN17175 / Electrically Resistance Or Induction Welded Steel Tubes for Elevated Temperature
(St35.8/St45.8/17Mn4/19Mn5/15Mo3/13CrMo910/10CrMo910/14MoV63/X20CrMoV121)
- DIN17176 Seamless circular steel tubes for hydrogen service at elevated temperatures and pressures
Technical delivery condition
- DIN17177 / Electrically Resistance or Induction Welded Steel Tubes for Elevated Temperature
(St37.8/St42.8/15Mo3)
- DIN 17178 Welded circular fine grain steel tubes subject to special requirements Technical delivery
conditions
- DIN 17179 Seamless circular fine grain steel tubes subject to special requirements Technical delivery
conditions
- DIN17455 / General Purpose Welded Circular Stainless Steel Tubes(Round Pipe)
(1.4301 / 1.4306 / 1.4311 / 1.4541 / 1.4550 / 1.4401 / 1.4404 / 1.4571)
- DIN17455 / General Purpose Welded Circular Stainless Steel Tubes(Square.Rectangular Pipe)
(1.4301 / 1.4306 / 1.4311 / 1.4541 / 1.4550 / 1.4401 / 1.4404 / 1.4571)
- DIN17456 / General Purpose Seamless Circular Stainless Steel Tubes
(1.4301 / 1.4306 / 1.4311 / 1.4541 / 1.4550 / 1.4401 / 1.4404 / 1.4571)
- DIN17457 / Welded Circular Austenitic Stainless Steel Tubes Subject to Special Requirements
(1.4301 / 1.4306 / 1.4311 / 1.4541 / 1.4550 / 1.4401 / 1.4404 / 1.4571)
- DIN17458 / Seamless Circular Austenitic Stainless Steel Tubes Subject to Special Requirements
(1.4301 / 1.4306 / 1.4311 / 1.4541 / 1.4550 / 1.4401 / 1.4404 / 1.4571)
- DIN17671 / Wrought Copper and Copper Alloy Tubes Properties
- DIN 59410 Hollow Sections for Structural Steel Engineering of Formed Square and Rectangular Steel Tubes
Dimensions, Weights, Permissible Deviations, Static Values
- DIN 59411 Hollow Sections for Structural Steel Engineering Cold Formed Welded Square and Rectangular
Steel Tubes Dimension, Weights, Permissible Deviations, Static Values

ISO(International organization for Standardization)

- ISO 65 / Carbon Steel Tubes Suitable for Screwing in Accordance with ISO 7/1 (TS/TW)
- ISO 559 / Welded or Seamless Steel Tubes for Water Sewage and Gas

(TSO/TWO/TS1/TW1/TS4/TW4/TS9/TW9)

ISO 2604-2 / Steel Products for Pressure Purposes PART2 Wrought Seamless Tubes
(TS1/TS2/TS4/TS5/TS6/TS9/TS9H/TS10/TS13/TS14/TS15)

ISO 2604-3 / Steel Products for Pressure Purpose Parts Electric Resistance and Induction
Welded Tubes (TW1/TW2/TW4/TW5/TW6/TW9/TW9H/TW10/TW13/TW14)

ISO 2604-5 / Steel Products for Pressure Purposes PART5 Longitudinally Welded Austenitic
stainless Steel Tubes (TW46/TW47/TW50/TW53/TW57/TW58/TW60/TW61/TW69)

ISO 2937 / Plain End Seamless Steel Tubes for Mechanical
Application (TS1/TS4/TS9/TS18/C35)

ISO 2938 / Hollow Steel Bars for Machining (Gr1/Gr2)

ISO 3183 / Oil and Natural Gas Industries Steel Line Pipe (E17/E21/E24-1/E24-2)

ISO 3304 / Plain end Seamless Precision Steel Tubes (R28/R33/R37/R42/R50)

ISO 3305 / Plain end Welded Precision Steel Tubes (R28/R33/R37/R44/R50)

ISO 3306 / Plain end as Welded and Sized Precision steel Tubes (R28/R33/R37/R44/R50)

KS(Korean Standards)

❖ Steel Tubular Products

- KS D 3507 Carbon Steel Pipes for Ordinary Piping (SPP ZINC WATER)
- KS D 3507 Carbon Steel Pipes for Ordinary Piping (SPP BLACK)
- KS D 3537 Galvanized Steel Pipes for Water Service (SPPW)
- KS D 3562 Carbon Steel Pipes for Pressure Service (SPPS 370/SPPS 410)
- KS D 3564 Carbon Steel Pipes for High Pressure Service (SPPH 370/SPPH 410/SPPH 480)
- KS D 3569 Steel Pipes for Low Temperature Service (SPLT 380/SPLT 450/SPLT 690)
- KS D 3570 Carbon Steel Pipes for High Temperature Service (SPHT370/SPHT410/SPHT480)
- KS D 3573 Alloy Steel Pipes (SPA 12/SPA 20/SPA 22/SPA 23/SPA 24/SPA 25/SPA 26)
- KS D 3576 Stainless Steel Pipes (STS304TP/STS304HTP/STS304LTP/STS309TP/STS309STP)
- KS D 3583 Arc Welded Carbon Steel Pipes (SPW 400)
- KS D 3585 Stainless Steel sanitary Pipes (STS 304TBS/STS 304LTBS/STS 316TBS)
- KS D 3588 Arc Welded Large Diameter Stainless Steel Pipes (STS 304 TPY/STS 304 LTPY)
- KS D 3589 Polyethylene coated Steel Pipes (P1H/P2S/P1F)
- KS D 3595 Light Gauge Stainless Steel Pipes for Ordinary Piping (STS 304 TPD/STS 316 TPD)

❖ Steel Tubes for Heat Transfer

- KS D 3563 Carbon Steel Tubes for Boiler and Heat Exchanger (STBH 340/STBH 410/ 510)
- KS D 3571 Steel Heat Exchanger Tubes for Low Temperature Service (STLT380/STLT450)
- KS D 3572 Alloy Steel for Boiler and Heat Exchanger Tubes (STHA 12/STHA 13/STHA 20)
- KS D 3577 Stainless Steel for Boiler and Heat Exchanger Tubes (STS 304TB/STS 304HTB)
- KS D 3587 Steel Tubes for Fired Heater (STF410/STFA12/STFA22/STFA23/STFA24/STFA25)

❖ Steel Tubes for Structural Purposes

- KS D 3517 Carbon steel tubes for machine structural purposes (STKM 11A/STKM 12A)
- KS D 3536 Stainless steel pipes for machine and structural purposes (STS430TKA/430TKC)
- KS D 3536 Stainless steel pipes for machine and structural purposes (STS304TKA/430TKC)
- KS D 3566 Carbon steel tubes for general structural purposes (SPS 290/SPS 400/SPS 500)
- KS D 3568 Carbon steel Square for general structural purposes (SPSR 400/SPSR 490)
- KS D 3574 Alloy steel tubes for machine purposes (SCr 420 TK/SCM 415 TK/SCM 418 TK)
- KS D 3590 Corrugated steel pipes and sections (SCP 1 R/SCP 1 RS/SCP 2 R/SCP 3 RS)
- KS D 3598 Electric Resistance Welded Carbon Steel Tubes for Automobile Structural Purposes (STAM 290GA/STAM 290GB/STAM 340G/STAM 390G/440G/470G/500G)
- KS D 3618 Carbon Steel Tubes Cylinder Barrels (STC 370/STC 440/STC 510 A/STC 510 B)
- KS D 3780 High Tensile Strength Steel Tubes for Tower Structural Purposes (STKT 540)
- KS F 4602 Steel pipes piles (SPS30/SPS41/SPS51/SPS50/SPS55)
- KS F 4605 Steel pipe sheet piles (SKY 400/SKY 490)

❖ Steel and Alloy Tubes and Pipes for Special Use

- KS D 3575 Seamless Steel Tubes for High Pressure Gas Cylinder (STHG11/STHG12/STHG21)
- KS D 3757 Seamless nickel-chromium-iron alloy heat exchanger tubes (NCF 600 TB)
- KS D 3758 Seamless nickel-chromium-iron alloy pipes (NCF600TP/NCF625TP/NCF690TP)
- KS C 8401 Rigid steel conduits (G16/G22/G28/G36/G42/G54/G70/G82/G92/G104)
- KS E 3114 Seamless Steel Tubes for Drilling (STM-C 540/STM-C 640/STM-R 590/R 690)

NF(Norme Francise)

NF A49-111 / Steel Tubes Plain end Seamless Tubes of Commercial Quality for General Purposes at Medium Pressure (TU37a)

NF A49-112 / Steel Tubes Plain end Seamless Hot Rolled Tubes with Special Delivery Conditions (TUE220A/TUE235A)

- NF A49-115 / Steel Tubes Seamless Plain end Tubes for Pipe Lines and General Use Ferritic And Austenitic Stainless Steels (TUZ2CN18-10/TUZ6CN18-09//TUZ6CND17-11)
- NF A49-141 / Steel Tubes Seamless Plain end Tubes for Pipe Lines and General Use Ferritic and Austenitic Stainless Steels (TS37a)
- NF A49-142 / Steel Tubes Longitudinally Pressure Welded Plain Ended And Hot Finished Tubes (TES185A/TSE235A/TSE250A/TSE275A)
- NF A49-145 / Steel Tubes Hot Finished welded Tubes Suitable for Threading (TS334-1)
- NF A49-146 / Steel Tubes Unthreaded Plain Ended Welded Tubes for Liquids (TS34-a)
- NF A49-148 / Steel Tubes Plain end Longitudinally Welded Tubes for Pipe Lines and General use Ferritic Stainless Steels (TSZ5CT14/TSZ6CT17/TSZ6CT17/TSZ18C17)
- NF A49-150 / Steel Tubes Welded Tubes Intended to be Coated or Protected for use in Water Piping Systems (TSE235)
- NF A49-175 / Steel Tubes Plain end Longitudinally Welded Tubes for Pipe Lines and General use Austenitic Stainless Steel (TSZ2CN18-10/TSZ6CN18-09/TSZ3CNT18-10)
- NF A49-207 / Steel Tubes Seamless or Longitudinally Welded Stainless Steel Tubes For Exchangers in Aircraft Construction (TSZ2CN18-10/TUZ2CN8-10/TSZ6CNNb18-12)
- NF A49-210 / Steel Tubes Seamless Cold Drawn Tubes for Fluid Piping (TU37B/TU42B)
- NF A49-211 / Steel Tubes Seamless Plain end Unalloyed Steel Tubes for Fluid Piping at Elevated Temperatures (TUE220/TUE250/TUE275)
- NF A49-212 / Steel Tubes Seamless Unalloyed Steel Tubes for Use At Medium Temperatures (TU37C/TU42C)
- NF A49-213 / Steel Tubes Seamless Unalloyed and Mo Crmo Alloy Steel Tubes for Use at High Temperatures (TU37C/TU42C/TU42CR/TU48C/TU48CR/RU52C/TU15D3/TU15CD2-05)
- NF A49-214 / Steel Tubes Seamless Austenitic Steel Tubes for use at High Temperatures (Z6CN19-10/Z3CND17-12B/Z6CNT18-12B/Z6CNNb18-12B/)
- NF A49-215 / Steel Tubes Seamless Tubes For Ferritic NonAlloy And Alloy Heat Exchangers (TU37C/TU42C/TU48C/TU15D3/TU15CD2-05/TU10CD5-05/TU10CD9-10)
- NF A49-217 / Steel Tubes Seamless Tubes for Heat Exchangers (TUZ12C13/TUZ10C17/TUZ2CN1810/TUZ2CN1810AZ/TUZ3CN1809/TUZ1CNS1815)
- NF A49-218 / Steel Pipes Seamless Pipes for Furnaces Austenitic Stainless Steels (TUZ6CN18-09/TUZ2CN18-10/TUZ6CNT18-10/TUZ6CNNb18-10/TUZ6CND17-11/TUZ2CND17-12)
- NF A49-230 / Steel Tubes Plain end Seamless Tubes for Pressure Vessels and Piping Systems Used at Low Temperatures (TU42BT/TU17N2/TU10N9/TU10N14/TUZ6N9)
- NF A49-240 / Steel Tubes Longitudinally Butt welding Plain End for Pressure Vessels and Pipe Systems Used at Low Temperatures (TS42BT/TS17N2/TS10N9)
- NF A49-241 / Steel Tubes Longitudinally Pressure Welded Tubes D 168.3mm Max in not Alloyed and Low Alloyed at Medium Elevated Temperatures (TS37C/TS42C/TSE24W3)
- NF A49-242 / Steel Tubes Longitudinally Pressure Welded Tubes D 168.3mm Max in not Alloyed and Low Alloyed at Medium Elevated Temperatures (TS37C/TS42C/TSE24W3/TSE36WB3)
- NF A49-243 / Steel Tubes Longitudinally Pressure Welded Tubes D 168.3mm in not Alloyed and Ferritic Alloyed Steels Used at Elevated Temperatures

(TS37C/TS42C/TS48C/TS52C/TS15D3/TS15CD2-05/TS15CD4-05)

☐ NF A49-245 / Steel Tubes Longitudinally Welded Tubes For Ferric Non Alloy and Alloy Steel Heat Exchangers (TS34C/TS37C/TS42C/TS48C/TS24W3)

☐ NF A49-249 / Steel Tubes Longitudinally Welded Plain End Tubes for Food Industry Austenitic Stainless Steels (TSZ6CN18-09/TSZ2CN18-10/TSZ2CND17-12/TSZ2CND17-11)

☐ NF A49-250 / Steel Tubes Welded Plain End Tubes of Commercial Quality with or Without Special Delivery Conditions D168.3mmMax (TSE24a/TSE26b)

☐ NF A49-253 / Steel Tubes Longitudinally Fusion Welded Non Alloy and Ferritic Alloy Steel Tubes for use at Elevated Temperatures (TS37CP/TS42CP/TS48CP/TS52CP)

☐ NF A49-310 / Steel Tubes Seamless Precision Tubes for Mechanical Application
(TU37-b/TU52-b/TU56-b)

☐ NF A49-311 / Steel Tubes Seamless for Mechanical Application
(TU37-b/TU52-b/TU56-b/TUXC35)

☐ NF A49-312 / Steel Tubes Seamless Tubes for Mechanical Application Supplementary Series (TU52-b/TUXC35)

☐ NF A49-317 / Steel Tubes Seamless Plain end Tubes for Engineering Use Austenitic Stainless Steel (TUZ2CN18-10/TUZ2CN17-12)

☐ NF A49-321 / Steel Tubes Jacks for Hydraulic Transmissions Cold Rolled
(TU37b/TU52b/TU52BT/TU18/MDV5/TU17/MV5)

☐ NF A49-322 / Steel Tubes Jacks for Hydraulic Transmissions Cold Rolled or Cold Drawn Seamless Tubes Type Suitable for Grinding in (TU37b/TU52b/TU17/MV5)

☐ NF A49-323 / Steel Tubes Jacks for Hydraulic Transmissions Cold Rolled or Cold Drawn Seamless Tubes Type Ready for Use (TU37b/TU52b/TU52BT/TU17/MV5)

☐ NF A49-326 / Steel Tubes Jacks for Pneumatic Transmissions Cold Drawn Seamless Tubes Type Suitable for Grinding in (TU37b/TU52b/TU52BT)

☐ NF A49-327 / Steel Tubes Jacks for Pneumatic Transmissions Cold Drawn Seamless Tubes Type Ready for Use (TU37b/TU52b)

☐ NF A49-330 / Steel Tubes Seamless Cold Drawn Tubes for Hydraulic and Pneumatic Power Systems
(TU37b/TU52b/TU42BT/TU17N2/TU10N14)

☐ NF A49-341 / Steel Tubes Precision Welded Tubes for Mechanical Application
(TS30o/TS30a/TS34a/TS7a/TS42a/TS47a)

☐ NF A49-343 / Steel Tubes Longitudinally Welded Tube D 168.3mmMax for Engineering Use (TS37b/TS815M5/TS18/MDV5)

☐ NF A49-400 / Longitudinally Electric Resistance Welded Unalloyed Steel Tubes D 17.2Min 406.4mmMax for the Transport of Pressurized Fluids
(TSE220/TSE250/TSE290/TSE320/TSE360Nb/TSE360B/TSE415Nb/TSE415V)

☐ NF A49-401 / Steel Tubes Longitudinally Fusion Welded Non Alloy and Micro Alloy Steel Tubes for Fluid Transporting Pipes and Pressure Vessels
(TSE220/TSE250/TSE290/TSE320/TSE360/TSE415/TSE450/TSE480)

☐ NF A49-402 / Steel Tubes Spiral Fusion Welded Non Alloy and Micro Alloy Steel Tubes for Fluid Transporting Pipes and Pressure Vessels
(TSE220/TSE250/TSE290/TSE320/TSE360/TSE415/TSE450/TSE480)

- ☛ NF A49-501 / Steel Tubes Seamless or Welded Hot Finished Structural Hollow Sections
(TUTSE235-2/TUTSE235-3/TUTSE235-4/TUTSE275-2/TUTSE275-3/TUTSE175-4/TSE295-2)
- ☛ NF A49-541 / Steel Tubes Cold Finished Welded Structural Hollow Sections
(TSE235-2/TSE235-3/TSE235-4/TSE275-2/TSE275-3/TSE275-4)
- ☛ NF A49-643 / Steel Tubes Round Square and Rectangular Steel Tubes for Ordinary Longitudinally Pressure Welded and Cold Formed From Flat Products
(TS30-1/TS30-2/TS34-2/TS37-2/TS42-2/TS47-2/TS335D/TS390D/TS445D) (Round)
- ☛ NF A49-643 / Steel Tubes Round Square and Rectangular Steel Tubes for Ordinary Longitudinally Pressure Welded and Cold Formed From Flat Products
(TS30-1/TS30-2/TS34-2/TS37-2/TS42-2/TS47-2/TS335D/TS390D/TS445D) (Square.Rectangular)
- ☛ NF A49-645 / Steel Tubes Structural Welded Tubes Circular Square Rectangular or Oval in Ferritic or Austenitic Stainless Steels (TSZ2CN18-10/TSZ6CN18-09/TSZ6CND17) (Round)
- ☛ NF A49-645 / Steel Tubes Structural Welded Tubes Circular Square Rectangular or Oval in Ferritic or Austenitic Stainless Steels (TSZ2CN18-10/TSZ6CN18-09/TSZ6CND17) (Square.Rectangular)
- ☛ NF A49-647 / Steel Tubes Structural Welded Tubes Circular Square Rectangular or Oval in Ferritic or Austenitic Stainless Steels (TSZ2CN18-10/TSZ6CN18-09/TSZ6CND17-11) (Round)
- ☛ NF A49-647 / Steel Tubes Structural Welded Tubes Circular Square Rectangular or Oval in Ferritic or Austenitic Stainless Steels (TSZ2CN18-10/TSZ6CN18-09/TSZ6CND17-11) (Square.Rectangular)


GOST RUSSIA STANDARD

Smooth Seamless Steel Tubes


GOST 8731-74 Seamless Hot-Deformed Steel Tubes. Technical requirements.

- ☛ GOST 8732-78 Seamless hot-deformed steel tubes. Range.
- ☛ GOST 8733-74 Seamless cold and warm deformed steel tubes. Technical requirements.
- ☛ GOST 8734-75 Seamless cold and warm deformed steel tubes. Range.
- ☛ GOST 9567-75 Precision tubes steel. Range.
- ☛ GOST 9940-72 Seamless hot deformed tubes made of corrosion resistant steel.
- ☛ GOST 9941-72 Seamless cold and warm deformed tubes made of corrosion Resistant steel.
- ☛ GOST 10498-63 Especially thin walled seamless tubes made of corrosion resistant (stainless) steel.
- ☛ GOST 1060-76 Steel seamless cold-deformed tubes for shipbuilding. Technical requirements.
- ☛ GOST 5654-76 Steel seamless hot-deformed tubes for shipbuilding. Technical requirements.
- ☛ GOST 550-75 Steel seamless steel tubes for petroleum processing and petrochemical industry.
- ☛ GOST 14162-69 Small-sizes steel tubes (capillary).
- ☛ GOST 10192-62 Bimetallic seamless tubes. Range.
- ☛ GOST 21945-76 Seamless hot-deformed steel tubes made of alloys on the basis of titanium.

Technical requirements.


 GOST 21729-76 Seamless cold-deformed and hot-deformed tubes made of structural carbon and alloyed steel.

 GOST 22786-77 Bimetallic seamless tubes for shipbuilding. Technical requirements


 GOST 631-75 Internal-external upset drill tubes with couplings.

 GOST 8467-57 Drill tubes for geology-exploring with nipple connections.

 GOST 632-64 Casing tubes with couplings.


 GOST 6238-77 Casing and coring tubes for geology-exploring drilling and nipples to them.

Technical requirements.

 GOST 633-63 Tubing pipes with couplings.


 GOST 10704-76 Electrically welded steel tubes, line-weld. Range.

 GOST 10706-76 Electrically welded steel tubes, line-weld. Technical requirements.


 GOST 10707-73 Electrically welded cold-drawn and cold-rolled steel tubes. Technical requirements.

 GOST 11068-64 Electrically welded stainless steel tubes

 GOST 3262-75 Steel tubes for water and gas supply with couplings.

 GOST 8696-74 Electrically welded steel tubes with spiral seams for general purposes


 GOST 5005-65 Electrically welded steel tubes for car cardan shafts.

 GOST 11249-73 Steel rolled up soldered double-layer tubes.


 GOST 12132-66 Electrically welded and seamless steel tubes for automotive and bicycle industries.

 GOST 20295-74 Welded steel tubes for main oil and gas pipelines.

 GOST 13663-68 Shaped steel tubes. Technical requirements.


 GOST 3664-68 Steel tubes star-shaped. Range.

 GOST 13665-68 Corrugated steel tubes. Range.

 GOST 13666-68 Many-ribbed steel tubes. Range.


 GOST 13667-68 Ribbed steel tubes. Range.


 GOST 13668-68 Steel tubes with inside splines. Range.


 GOST 8639-82 Square steel tubes. Range.

 GOST 8642-68 Oval steel tubes. Range.


 GOST 8644-68 Flat-sided oval steel tubes. Range.

 **GOST 8645-68 Rectangular steel tubes. Range.**


 **GOST 11681-65 Bended stainless steel tubes. Range.**

 **GOST 11682-65 Bended stainless steel tubes. Technical requirements.**


 **TU 14-3-190-82 SEAMLESS STEEL TUBES FOR ELEVATED TEMPERATURES (10)**


 **TU 14-3-460-74 SEAMLESS STEEL TUBES FOR ELEVATED TEMPERATURES (20)(12H1MF/15HM)**

 GOST 10192-62 Bimetallic seamless tubes. Range.

 GOST 21945-76 Seamless hot-deformed steel tubes made of alloys on the basis of titanium.


Technical requirements.

 GOST 21729-76 Seamless cold-deformed and hot-deformed tubes made of structural carbon and alloyed steel.


 GOST 22786-77 Bimetallic seamless tubes for shipbuilding. Technical requirements

 GOST 20295-74 Welded steel tubes for main oil and gas pipelines.

 GOST 13663-68 Shaped steel tubes. Technical requirements.

 GOST 3664-68 Steel tubes star-shaped. Range.

 GOST 13665-68 Corrugated steel tubes. Range.

 GOST 13666-68 Many-ribbed steel tubes. Range.

 GOST 13667-68 Ribbed steel tubes. Range.


 GOST 13668-68 Steel tubes with inside splines. Range.

 GOST 8639-82 Square steel tubes. Range.

 GOST 8642-68 Oval steel tubes. Range.

 GOST 8644-68 Flat-sided oval steel tubes. Range.

 GOST 8645-68 Rectangular steel tubes. Range.

 GOST 11681-65 Bended stainless steel tubes. Range.

 GOST 11682-65 Bended stainless steel tubes. Technical requirements.

 TU 14-3-190-82 SEAMLESS STEEL TUBES FOR ELEVATED TEMPERATURES (10)

 TU 14-3-460-74 SEAMLESS STEEL TUBES FOR ELEVATED TEMPERATURES (20)(12H1MF/15HM)

Quality groups of tubes

Group of quality	Requirements
A	With fixing of mechanical characteristics.
B	With fixing of an elemental composition.
C	With fixing of mechanical characteristics and elemental composition
D	With fixing of an elemental composition and monitoring mechanical properties on thermically treated samples.
E	Without fixing of mechanical characteristics and elemental composition,

but with fixing of testing hydraulic pressure.

AWWA (American Water Works Association)

收集整理: 董劲松 个人博客: <http://www.josen.net> 工作网站: <http://www.steel-tube.com>
电话:13337883086 传真:+86-519-82076060

- AWWA C200-97: Steel Water Pipe-6 In. (150 mm) and Larger
- AWWA C203-02: Coal-Tar Protective Coatings & Linings for Steel Water Pipelines, Enamel & Tpaе, Hot-pap. (Incl. add. C203a-99)
- AWWA C205-00: Cement-Mortar Protective Lining and Coating for Steel Water Pipe- 4 In. (100 mm) and Larger-Shop papli
- AWWA C206-97: Field Welding of Steel Water Pipe
- AWWA C207-01: Steel Pipe Flanges for Waterworks Service- Sizes 4 In. Through 144 In. (100 mm Through 3,600 mm)
- AWWA C208-01: Dimensions for Fabricated Steel Water Pipe Fittings
- AWWA C209-00: Cold-paplied Tpaе Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipe
- AWWA C210-97: Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines
- AWWA C213-01: Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines
- AWWA C214-00: Tpaе Coating Systems for the Exterior of Steel Water Pipelines
- AWWA C215-99: Extruded Polyolefin Coatings for the Exterior of Steel Water Pipelines
- AWWA C216-00: Heat-Shrinkable Cross-Linked Polyolefin Coatings for the Exterior of Special Sections, Connections, and Fitting
- AWWA C217-99: Cold-paplied Tpaе Coatings for Ext. Spec. Sect., Conn., and Fittings for Buried/Submerged Steel Water Pipelines
- AWWA C218-02: Coating the Exterior of Aboveground Steel Water Pipelines and Fittings
- AWWA C219-01: Bolted, Sleeve-Type Couplings for Plain-End Pipe
- AWWA C220-98: Stainless-Steel Pipe, 4 In. (100 mm) and Larger (Includes addendum C220a-99)
- AWWA C221-01: Fabricated Steel Mechanical Slip-Type Expansion Joints
- AWWA C222-99: Polyurethane Coatings for the Interior and Exterior of Steel Water Pipe and Fittings
- AWWA C223-02: Fabricated Steel and Stainless Steel Tpaping Sleeves
- AWWA C224-01: Two-layer Nylon-11 Based Polyamide Coating System for Interior and Exterior of Steel Water Pipe and Fittings
- AWWA C225-03: Fused Polyolefin Coating Systems for the Exterior of Steel Water Pipelines

SAE(Society of Automative Engineers)

- SAE J242a Metric Thread Fuel Injection Tubing Connections
- SAE J246 Spherical and Flanged Sleeve (Compression) Tube Fittings
- SAE J349 Detection of Surface Imperfections in Ferrous Rods, Bars, tubes, and wires
- SAE J356 Welded Flash-Controlled Low-Carbon Steel Tubing Normalized for Bending, Double Flaring, and Beading
- SAE J371 Drain, Fill, and Level Plugs for Off-Road, Self-Propelled work machines
- SAE J398 Fuel Tank Filler Conditions~Passenger Car, Multi-Purpose passenger vehicles,and Light Duty Trucks
- SAE J401 Selection and Use of Steels
- SAE J402 SAE Numbering System for Wrought or Rolled Steel
- SAE J403 Chemical Compositions of SAE Carbon Steels
- SAE J404 Chemical Compositions of SAE Alloy Steels
- SAE J405 Chemical Compositions of SAE Wrought Stainless Steels
- SAE J406 Methods of Determining Hardenability of Steels
- SAE J409 Product Analysis~Permissible Variations from Specified chemical analysis of a Heat or Cast of Steel
- SAE J411 Carbon and Alloy Steels
- SAE J412 General Characteristics and Heat Treatments of Steels
- SAE J413 Mechanical Properties of Heat Treated Wrought Steels
- SAE J422 Microscopic Determination of Inclusions in Steels
- SAE J424 Method for Determining Breakage Allowances for Sheet Steel
- SAE J463 Wrought Copper and Copper Alloys
- SAE J476a Dryseal Pipe Threads
- SAE J512 Automotive Tube Fittings
- SAE J513 Refrigeration Tube Fittings~General Specifications
- SAE J514 Hydraulic Tube Fittings : Title: Hydraulic Tube Fittings
- SAE J515 Specification For Hydraulic O-Ring Materials, Properties, and Sizes For Metric and Inch Stud Ends, Face Seal Fitting and Four-Screw Flange Tube Connections
- SAE J518 Hydraulic Flanged Tube, Pipe, and Hose Connections, Four-Bolt split flange Type : Title: Hydraulic Flanged Tube, Pipe, and Hose Connections, Four-Bolt split flange Type
- SAE J521 Fuel Injection Tubing Connections
- SAE J524 Seamless Low-Carbon Steel Tubing Annealed for Bending and flaring
- SAE J525 Welded and Cold Drawn Low-Carbon Steel Tubing Annealed for bending and Flaring
- SAE J526 Welded Low-Carbon Steel Tubing
- SAE J527 Brazed Double Wall Low-Carbon Steel Tubing
- SAE J528 Seamless Copper Tube

SAE J529 Fuel Injection Tubing
SAE J530 Automotive Pipe Fittings
SAE J531 Automotive Pipe, Filler, and Drain Plugs : Title: Automotive Pipe, Filler, and Drain Plugs
SAE J533 Flares for Tubing
SAE J534 Lubrication Fittings
SAE J554 Electric Fuses (Cartridge Type)
SAE J562 Nonmetallic Loom
SAE J830 Fuel Injection Equipment Nomenclature
SAE J844 Nonmetallic Air Brake System Tubing
SAE J846 Coding Systems for Identification of Fluid Conductors and Connectors
SAE J926 Hydraulic Pipe Fittings
SAE J935 High Strength Carbon and Alloy Die Drawn Steels
SAE J962 Formed Tube Ends for Hose Connections
SAE J1037 Windshield Washer Tubing
SAE J1047 Tubing-Motor Vehicle Brake System Hydraulic
SAE J1065 Nominal Reference Working Pressures for Steel Hydraulic TubingView Document
SAE J 1086 Numbering Metals and Alloys
SAE J1131 Performance Requirements for SAE J844 Nonmetallic Tubing and Fitting Assemblies Used in Automotive Air Brake Systems
SAE J1140 Filler Pipes and Openings of Motor Vehicle Fuel Tanks
SAE J1149 Metallic Air Brake System Tubing and Pipe
SAE J1207 Measurement Procedure for Determination of Silencer Effectiveness in Reducing Engine Intake or Exhaust Sound Level
SAE J1231 Formed Tube Ends for Hose Connections and Hose Fittings
SAE J1290 Automotive Hydraulic Brake System-Metric Tube Connections
SAE J1394 Metric Nonmetallic Air Brake System Tubing
SAE J1392 Steel, High Strength, Hot Rolled Sheet and Strip, Cold Rolled Sheet, and Coated Sheet
SAE J1418 Fuel Injection Pumps.High Pressure Pipes (Tubing) for Testing
SAE J1442 High-Strength, Hot-Rolled Steel Bars
SAE J1453 Fitting.O-Ring Face Seal
SAE J1611 (R) Operator Controls.Horizontal Earthboring Machines
SAE J1615 Thread Sealants
SAE J1644 Metallic Tube Connections for Fluid Power and General Use-Test Methods for Threaded Hydraulic Fluid Power Connectors
SAE J1650 Seamless Copper-Nickel 90-10 Tubing
SAE J1659 Vehicle Testing Requirements for Replacement Refrigerants for CFC-12 (R-12) Mobile Air-Conditioning Systems
SAE J1677 Tests and Procedures for SAE Low-Carbon Steel and Copper nickel Tubing

SAE J 1684 Test Method for Evaluating the Electrochemical Resistance of Coolant System Hoses and Materials

SAE J1737 Test Procedure to Determine the Hydrocarbon Losses from Fuel Tubes, Hoses, Fittings, and Fuel Line Assemblies by Recirculation

SAE J 1755 Guidelines for Usage of Stainless Steel and Bimetal for exterior automotive Bright Trim

SAE J1781 Materials for Fluid Systems of Marine Vehicles

SAE J1944 Truck and Bus Multipurpose Vehicle Windshield Washer System

SAE J1949 Road Vehicles. High Pressure Fuel Injection Pipe Connections with 60 Degree Female Cone

SAE J1958 Diesel Engines.Steel Tubes for High-Pressure Fuel Injection Pipes (Tubing)

SAE J1991 Standard of Purity for Use in Mobile Air-Conditioning Systems

SAE J2022 Classification, Nomenclature, and Specification Definitions for Horizontal Earthboring Machines

SAE J2027 Standard for Protective Covers for Gasoline Fuel Line Tubing

SAE J2043 Nonmetallic Fuel System Tubing

SAE J2044 Quick Connector Specification for Liquid Fuel and Vapor/Emissions Systems

SAE J2045 Performance Requirements for Fuel System Tubing Assemblies

SAE J2244/1 Connection for Fluid Power and General Use. Ports and Stud Ends with ISO 261 Threads : Part 1 : Port with O-Ring Seal in Truncated Housing

SAE J2244/2 Connection for Fluid Power and General Use. Ports and stud Ends with ISO 261 Threads andand O-Ring Sealing : Part 2 : Heavy-Duty (S Series) Stud Ends. Dimensions, Design, Test Methods, and Requirements

SAE J2254 Fluid Power Piping Cleaning Process

SAE J2260 Nonmetallic Fuel System Tubing with One or More Layers

SAE J2305 Safety for Horizontal Earthboring Machines

SAE J2405 Low-Permeation Fuel Fill and Vent Tube

SAE J2435 Welded Flash Controlled, SAE 1021 Carbon Steel Tubing, Normalized for Bending, Double Flaring, and Beading

SAE J2467 Welded and Cold-Drawn, SAE 1021 Carbon Steel Tubing Normalized for Bending and Flaring

SAE J2494 Push-to-Connect Tube Fittings for Use in the Piping of Vehicular Air Brake

SAE J2494-2 Dimensional Specifications for Non-Metallic Body Push-to- Connect Fittings Used on a Vehicular Air Brake

SAE J2494-3 Performance Requirements for SAE J 844 Non-metallic Air Brake Tubing and Push to Connect Fitting Assemblies Used in Vehicular Air Brake Systems

SAE J2494-4 Cartridge Cavity

SAE J2551 Recommended Practices for Fluid Conductor Metallic Tubing Applications

SAE J2583 Directional Drilling Planning and Mapping Nomenclature

SAE J2599 Fuel Filler Pipe Assembly Design Practice to Meet Low Evaporative Emission Requirements

SAE J2613 Welded Flash Controlled, High Strength Low Alloy Steel Hydraulic Tubing, Sub-Critically Annealed for Bending, Double Flaring, and Bending

SAE J2614 Welded and Cold-Drawn, High Strength Low Alloy Steel Hydraulic Tubing, Sub-Critically Annealed for Bending and Flaring

SAE J2658 Metallic Tube Conductor Assemblies for Fluid Power and General Use~Test Methods for Hydraulic Fluid Power Metallic Tube Assemblies

GB STANDARD(China Standard)

Seamless Steel Pipe

GB T17395 Seamless Steel Pipe

GB T8162 Structure Pipe 10 20 35 45 40Mn2 45Mn2 27SiMn 20Cr 40Cr 20CrMo 35CrMo 38CrMoA1 50CrV 30CrMnSi

GB T14975 Structure for Stainless seamless Tube mechanical structure, fluid pipeline, passing heat equipment of boiler, heat converter, congealed equipment, catalytic pipeline 0Cr18Ni9 1Cr18Ni9 00Cr19Ni10 0Cr18Ni10Ti 0Cr18Ni11Nb 0Cr17Ni12Mo2 00Cr17Ni14Mo2 0Cr18Ni12Mo2Ti 1Cr18Ni12Mo2Ti 0Cr18Ni12Mo3Ti 1Cr18Ni12Mo3Ti 1Cr18Ni9Ti 0Cr19Ni13Mo3 00Cr19Ni13Mo3 0Cr13 1Cr17 1Cr13 2Cr13

GB T8163 Seamless Pipe For Fluid Pipe 10 20 Q295 Q345

GB T14976 Stainless Seamless Pipe For Fluid Pipe 0Cr18Ni9 00Cr19Ni10 0Cr23Ni13 0Cr25Ni20 0Cr18Ni10Ti 0Cr18Ni11Nb 0Cr17Ni12Mo2 00Cr17Ni14Mo2 0Cr19Ni13Mo3 00Cr19Ni13Mo3 0Cr18Ni12Mo2Ti 1Cr18Ni12Mo2Ti 1Cr18Ni12Mo3Ti 0Cr18Ni12Mo3Ti 0Cr18Ni12Mo2Cu2 00Cr18Ni14Mo2Cu2 0Cr13 0Cr26Ni5Mo2

GB T3090 Small Diameter Stainless Steel Pipe 1Cr18Ni9Ti

GB T3089 Stainless-steel super-thin thickness and seamless steel pipe 00Cr18Ni10 1Cr18Ni9Ti 00Cr17Ni14Mo2 1Cr18Ni12Mo2Ti 1Cr18Ni12Mo3Ti

GB T3639 Cold Rolled Precision Seamless Pipe 10 20 35 45 16Mn

GB3094 Cold Rolled Seamless Specials Pipe (Oval Square Rectangular Hexagon) 10 15 20 25 30 35 40 45 50 09MnV 16Mn 15MnV

YB T5053 Seamless Pipe For Automotive Bushing 45 45Mn2 40Cr 20CrNi3A

GB T5312 Carbon Steel or Carbon Manganese Steel Seamless Pipe for Ship Building Q320 Q360 Q410 Q460 Q490 Q500 Q510

GB T3093 High Pressure Seamless Pipe For diesel engine 20A

GB T8713 Precision In Diameter Seamless Steel Pipe For Fluid Power Cylinder 10 20 35 45 16Mn

GB T3087 Seamless Steel Pipe For Low and Medium Pressure Boiler 10 20

GB T5130 Seamless Steel Pipe For High Pressure Boiler 20G 20MnG 25MnG 15MoG 20MoG 12CrMoG 15CrMoG 12Cr2MoG 12Cr1MoVG 12Cr2MoWVTiB 12Cr3MoVSiTiB 10Cr9Mo1VNb 1Cr18Ni9 1Cr19Ni11Nb

GB T13296 Stainless Seamless Steel for Boiler and Heat Exchanger Tubes 0Cr18Ni9 1Cr19Ni9 00Cr19Ni10 2Cr23Ni13 0Cr23Ni13 0Cr23Ni13 2Cr25Ni20 0Cr17Ni12Mo2 1Cr17Ni12Mo2 0Cr17Ni14Mo2 0Cr19Ni13Mo3 00Cr19Ni13Mo3 1Cr18Ni9Ti 0Cr18Ni10Ti 1Cr18Ni11Ti 0Cr19Ni11Nb 1Cr19Ni11Nb 0Cr18Ni13Si4 1Cr18Ni12Mo2Ti 0Cr18Ni12Mo2Ti 1Cr18Ni12Mo2Ti 1Cr18Ni12Mo3Ti 0Cr26Ni5Mo2 1Cr17 00Cr27Mo 1Cr25Ti

GB T6479 High Pressure Seamless Pipe For Chemical Fertilizer Equipment High Pressure seamless Pipe for Fertihzer Equipment 10 20G 16Mn 15MnV 10MoWVNB 12CrMo 15CrMo 1Cr5Mo 12Cr2Mo

GB T9948 Seamless steel tube for petroleum cracking 10 20 12CrMo 15CrMo 1Cr2Mo 1Cr5Mo 1Cr19Ni9 1Cr19Ni11Nb

YB T5052 Geological Drilling Pipe Seamless Pipe For Diamond Core Boring DZ65-27MnMoVB

GB T17396 Hot Rolled Seamless Pipe For Hydraulic Cylinder 20 35 45 27SiMn 30MnNbRE

BQB 232 Tubes for Perforating Gun

WELDED PIPE

GB T13793 Buttweld Electric Resistance Welded Pipe 08F 08 10F 10 15F 15 20 Q195 Q195A Q195B Q235A Q235B

GB 11258 Fluoride Resin Coated Double Wall Steel Pipes for Automobiles 08 08F 08A1

GB T3091 Welded Pipe And For the Low Pressure Fluids & Galvanized (Zinc Coated) Welded Pipe And For the Low Pressure Fluids Q195 Q215 Q235A

GB T3092 Welded Pipe And For the Low Pressure Fluids & Galvanized (Zinc Coated) Welded Pipe And For the Low Pressure Fluids Q195 Q215 Q235A

GB T14980 Large Diameter Electric Welded For the Low Pressure Fluids For the Low Pressure Fluids Q215 Q235A Q235B

GB T12771 Stainless Steel Welded Pipe For the Low Pressure Fluids 1Cr18Ni9 0Cr19Ni9 0Cr19Ni11 0Cr25Ni20 0Cr17Ni12Mo2 00Cr17Ni14Mo2 0Cr18Ni11Ti 0Cr18Ni11Nb 00Cr17 00Cr18Mo2 0Cr13

YB T4102 Welded Pipe For the Low Pressure Fluids For Low and Middle Boiler 10 20

YB 4103 Carbon Steel Tubes for Boiler and Heat Exchaner 10

YB T5209 Electric Resistance Welded Steel Pipe For Power Transmission Shaft 08Z 15TiZ 20Z 25Z

GB T12700 Stainless Steel Welded Pipe For Machine Structural Purposed 00Cr19Ni11
00Cr17Ni14Mo2 0Cr19Ni9 1Cr18Ni9 1Cr18Ni9Ti 0Cr17Ni12Mo2 0Cr18Ni11Nb 0Cr25Ni20 1Cr17 1Cr15 0Cr13
1Cr13

GB T13792 Electric Welded Steel Pipe For Conveyor Support Q215 Q235

YB T4028 Pump Electric Welded Steel Pipe For Deep Subsurface Water

GB T14291 Electric Welded Steel Pipe For Mining Fluid Q235A Q235B

GB T3640 General Carbon Conduits Pipe Clip

GB T3641 P3 Zinc Coated Metal Smoke Tube

GB T3642 S type brazed Stainless Metal Smoke Tube 1Cr18Ni9Ti

SGG262 Cold Rolled Minute Steel Pipe for Automobile, and Shock Absorber of Motorcycle 10
20 35 45

Others

EDM Electrode Tubes

STAINLESS HOLLOW BAR

DUPLEX STAINLESS STEEL PIPE

AS 1074 STEEL TUBES AND TUBULARS FOR ORDINARY SERVICE

AS 1163 STRUCTURAL STEEL HOLLOW SECTIONS

UL 6 RIGID METAL CONDUIT

ANSI C80.1 RIGID METAL CONDUIT

CSA C22.2 RIGID METAL CONDUIT


S45C PIPE (Carbon Steel for Machine Structural Use PIPE)

HR PIPE (Hot Rolled Pipe)

CR PIPE (Cold Rolled Pipe)

CGI PIPE (Cold Rolled Galvanized Iron Pipe)

HGI PIPE (Hot Rolled Galvanized Iron Pipe)



手机: 13337883086

传真: 0519-82076060

QQ: 732233696

邮箱: steeltube@foxmail.com