Standardization organizations

INTERNATIONAL
ISO International Organization for Standardization

NORTH AMERICA
API American Petroleum Institute USA
ASTM American Society for Testing and Materials USA
AWWA American Water Works Association USA
ANSI American National Standards Institute USA
UL Underwriters Laboratories USA
CSA Canadian Standards Canada
SAE Society of Automotive Engineers

LATIN AMERICA
NBR Brazilian Standards Brazil
NOM Mexican Bureau of Norms Mexico
COVENIN Venezuelan Commission on Industrial Standards Venezuela
IRAM Argentinian Standards Institute Argentina
NAG Argentinian Standards Argentina

EUROPE
EN European Committee for Standardization

WESTERN EUROPE
DIN German Standards Institute Germany
BS British Standards United Kingdom
NF AENOR (French Association for Standardization) France
UNI Italian National Standards Institute Italy
UNE Spanish Standards Spain
NEN Dutch Standards Netherlands
SIS Swedish Standards Sweden
SFS Finnish Standards Finland

EASTERN EUROPE AND MIDDLE EAST
ISIRI Institute of Standards and Industrial Research of Iran
GOST Russian standards Russia
TS Turkish Standards Turkey
CSN Czech Standards Institute Czech Republic
MSZ Hungarian Standards Hungary
PN Polish Standards Poland
BN Polish Standards Poland
TU Ukrainian Standards Ukraine

ASIA
JIS Japanese Industrial Standards Japan
KS Korean Standards Korea
GB Chinese National Standards China
SY Chinese National Standards China
CNS Taiwan National Standards Taiwan
YB China
IS Indian Standards India
SNI Indonesia National Standards Indonesia
AS Australian Standards Australia

INTERNATIONAL
ISO International Organization for Standardization

7.1 Pipe threads where pressure-tight joints are made on the threads - dimensions, tolerances and designation
7.2 Pipe threads where pressure-tight joints are made on the threads - verification by means of limit gauges

Tel: +86-21-6090 0836/6090 0838  http://www.klsteel.com  Email: metalsintl@klsteel.com
7186 Ductile iron products for sewage applications
7598 Stainless steel tubes suitable for screwing in accordance with ISO 7-1
8179 - 1 Ductile iron pipes - external zinc coating - metallic zinc with finishing layer
8179 - 2 Ductile iron pipes - external zinc coating - zinc rich paint with finishing layer
8180 Ductile iron pipes - polyethylene sleeving
8496 Metallic materials - tubes - ring tensile test
8535 Compression-ignition engines - steel tubes for high-pressure fuel injection pipes
8535 - 1 Compression-ignition engines - steel tubes for high-pressure fuel injection pipes - requirements for seamless cold-drawn single-wall tubes
9095 Steel tubes - continuous character marking and colour coding for material identification
9302 Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes - electromagnetic testing for verification of hydraulic leak-tightness
9303 Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes - full peripheral ultrasonic testing for the detection of longitudinal imperfections
9304 Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes - eddy current testing for the detection of imperfections
9305 Seamless steel tubes for pressure purposes - full peripheral ultrasonic testing for the detection of transverse imperfections
9329 - 1/2/3/4 Seamless steel tubes for pressure purposes - technical delivery conditions
9330 - 1/2/3/4 Welded steel tubes for pressure purposes - technical delivery conditions
9330 - 1 Welded steel tubes for pressure purposes - technical delivery conditions - unalloyed steel tubes with specified room temperature properties
9330 - 2 Welded steel tubes for pressure purposes - technical delivery conditions - unalloyed and alloyed steel with specified elevated temperature properties
9330 - 3 Seamless steel tubes for pressure purposes - technical delivery conditions - unalloyed and alloyed steels with specified low temperature properties
9330 - 4 Seamless steel tubes for pressure purposes - technical delivery conditions - austenitic stainless steels
9330 - 1/2/3/4 Welded steel tubes for pressure purposes - technical delivery conditions
9330 - 1 Welded steel tubes for pressure purposes - technical delivery conditions - unalloyed steel tubes with specified room temperature properties
9330 - 2 Welded steel tubes for pressure purposes - technical delivery conditions - electric resistance and induction welded unalloyed and alloyed steel tubes with specified elevated temperature properties
9330 - 3 Welded steel tubes for pressure purposes - technical delivery conditions - electric resistance and induction welded unalloyed and alloyed steel tubes with specified low temperature properties
9330 - 4 Welded steel tubes for pressure purposes - technical delivery conditions - submerged arc-welded unalloyed and alloyed steel tubes with specified elevated temperature properties (Partial revision of ISO 2604-6:1978)
9330 - 5 Welded steel tubes for pressure purposes - technical delivery conditions - submerged arc-welded unalloyed and alloyed steel tubes with specified low temperature properties (Partial revision of ISO 2604-6:1978)
9330 - 6 Welded steel tubes for pressure purposes - technical delivery conditions - longitudinally welded austenitic stainless steel tubes
9402 Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes - full peripheral magnetic transducer/flux leakage testing of ferromagnetic steel tubes for the detection of longitudinal imperfections
9598 Seamless steel tubes for pressure purposes - full peripheral magnetic transducer/flux leakage testing of ferromagnetic steel tubes for the detection of transverse imperfections
9626
9764 Electric resistance and induction welded steel tubes for pressure purposes - ultrasonic testing of the weld seam for the detection of longitudinal imperfections
9765 Submerged arc-welded steel tubes for pressure purposes - ultrasonic testing of the weld seam for the detection of longitudinal and/or transverse imperfections
10124 Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes - ultrasonic testing for the detection of laminar imperfections
10332 Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes - ultrasonic testing for the verification of hydraulic leak-tightness
10543 Seamless and hot-stretch-reduced welded steel tubes for pressure purposes - full peripheral ultrasonic thickness testing
10763 Hydraulic fluid power - plain-end, seamless and welded precision steel tubes - dimensions and nominal working pressures
10803 Design method for ductile iron pipes
11484 Steel tubes for pressure purposes - qualification and certification of non-destructive testing (NDT) personnel
11496 Seamless and welded steel tubes for pressure purposes - ultrasonic testing of tube ends for the detection of laminar imperfections

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11960 Steel pipes for use as casing or tubing for wells - petroleum and natural gas industries
11961 Petroleum and natural gas industries - steel pipes for use as drill pipe - specification
12094 Welded steel tubes for pressure purposes - ultrasonic testing for the detection of laminar imperfections in strips/plates used in the manufacture of welded tubes
12095 Seamless and welded steel tubes for pressure purposes - liquid penetrant testing
12096 Submerged arc-welded steel tubes for pressure purposes - radiographic testing of the weld seam for the detection of imperfections
13663 Welded steel tubes for pressure purposes - ultrasonic testing of the area adjacent to the weld seam for the detection of laminar imperfections
13664 Seamless and welded steel tubes for pressure purposes - magnetic particle inspection of the tube ends for the detection of laminar imperfections
13665 Seamless and welded steel tubes for pressure purposes - magnetic particle inspection of the tube body for the detection of surface imperfections

NORTH AMERICA

API American Petroleum Institute
API Spec 2B Structural Steel Pipe – Steel Pipe
API Spec 2C Offshore Cranes – Offshore Cranes
API Spec 2F Mooring Chain - Flash Welded Chain; Forged Connecting Links
API Spec 2H Carbon Manganese Steel Plate for Offshore Platform Tubular Joints – Grade 42 Steel Plate; Grade 50 Steel Plate
API Spec 2MT As-Rolled Carbon Manganese Steel Plate with Improved Toughness for Offshore Structures – Steel Plate, Grade 2MT1
API Spec 2MT2 Rolled Shapes with Improved Notch Toughness - Steel Rolled Shapes
API Spec 2W Steel Plates for Offshore Structures Produced by Thermo-Mechanical Control Processing (TMCP) – Grade 50 Steel Plate; Grade 60 Steel Plate
API Spec 2Y Steel Plates, Quenched-and-Tempered, for Offshore Structures – Grade 50 Steel Plate; Grade 60 Steel Plate
API Spec 4F Drilling and Well Servicing Structures – Derricks; Masts; Crown Block Assemblies; Substructures; at PSL 1 and 2
API Spec 5B Threading, Gauging, and Thread Inspection of Casing, Tubing and Line Pipe Threads – Thread Gages
API Spec 5CT Casing and Tubing – Manufacturer of Casing or Tubing Plain End; Manufacturer of Casing or Tubing Threaded and Coupled; Manufacturer of Casing or Tubing Pup Joints; Manufacturer of Casing or Tubing Couplings; Manufacturer of Accessories; Processor of Casing or Tubing Plain End; Processor of Casing or Tubing Threaded and Coupled; Threader at Groups 1, 2, 3 and 4.
API Spec 5DP Drill Pipe - Drill Pipe Body; Tool Joints; Drill Pipe (Assembly)
API Spec 5L Line Pipe – Manufacturer of Line Pipe - Plain End at PSL 1; Manufacturer of Line Pipe - Plain End at PSL 2; Manufacturer of Line Pipe - Threaded and Coupled; Manufacturer of Line Pipe Couplings; Processor of Line Pipe - Plain End at PSL 1; Processor of Line Pipe - Plain End at PSL 2; Processor of Line Pipe - Threaded and Coupled; Threader.
API Spec 5LC CRA Line Pipe – Manufacturer of Alloy Pipe; Processor of Alloy Pipe
API Spec 5LCP Coiled Line Pipe – Coiled Line Pipe
API Spec 5LD CRA Clad or Lined Steel Pipe; Manufacturer of Clad Steel Pipe; Manufacturer of Lined Steel Pipe; Processor of Clad Steel Pipe; Processor of Lined Steel Pipe.
API RP 5L 7 Unprimed internal fusion bonded epoxy coating of line pipe
API RP 5C 7 Recommended practice for coiled tubing operations in oil and gas well services
API Spec 5ST Coiled Tubing - Manufacturer of Coiled Tubing
API Spec 6A Wellhead and Christmas Tree Equipment – Manufacture of: Casing and Tubing Heads; Cross-Over Connectors; Tubing Head Adapters; Top Connectors; Tees and Crosses; Fluid-Sampling Devices; Adapter and Spacer Spools; Casing and Tubing Hangers; Valves; Checks; Surface and Underwater Safety Valves; Surface and Underwater Safety Valve Actuators; Back Pressure Valves; Flanged Connectors; Threaded Connectors; Other End Connectors; Bullplugs; Valve Removal Plugs; Actuators; Ring Joint Gaskets at PSL 1 through 4
API Spec 6AV1 Verification Test of Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Use – Testing Agency
API Spec 6D Pipeline Valves (Steel Gate, Plug, Ball, and Check Valves) – Gate Valves; Plug Valves; Ball Valves; Check Valves
API Spec 6DSS Subsea Pipeline Valves - Subsea Gate Valves; Subsea Plug Valves; Subsea Ball Valves; Subsea Check Valves
API Spec 6H End Closures, Connectors and Swivels – Pipeline Closures; Connectors; Couplings; Misalignment Devices (Swivels); Split Mechanical Fittings
API Spec 7-1 Rotary Drilling Equipment - Kelly Valves; Kellys; Drill Stem Subs; Drill Collars; Heavy Weight Drill Pipe; Roller Bits; Blade Drag Bits; Diamond Bits; PDC Bits; Threading for Rotary Shouldered Connections
API Spec 7-2 Threading and Gauging of Rotary Shouldered Thread Connections - Rotary Shouldered Connection Gauges
API Spec 7B-11C Internal-Combustion Reciprocating Engines for Oil Field Service
API Spec 7F Oil Field Chain and Sprockets – Roller Chain

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ASTM American Society for Testing and Materials
A 53 Steel pipe, black and hot-dipped, zinc-coated, welded and seamless
A 106 Seamless carbon steel pipe for high temperature service
A 134 Electric-fusion arc-welded steel pipe (sizes NPS 16 and over)
A 135 Electric-resistance-welded steel pipe
A 139 Electric-fusion arc-welded steel pipe (NPS 4 and over)
A 161 Seamless low-carbon and carbon-molybdenum steel still tubes for refinery service
A 178 Electric-resistance-welded carbon steel boiler tubes
A 179 Seamless cold drawn low carbon steel heat exchanger and condenser tubes
A 192 Seamless carbon steel boiler tubes for high-pressure service
A 200 Seamless intermediate alloy steel still tubes for refinery service
A 209 Seamless carbon-molybdenum alloy-steel boiler and superheater tubes
A 210 Seamless medium-carbon steel boiler and superheater tubes
A 213 Seamless ferritic and austenitic alloy steels boiler tubes, superheater, heat-exchanger tubes
A 214 Electric-resistance-welded carbon steel heat-exchanger and condenser tubes
A 226 Electric-resistance-welded carbon steel boiler and superheater tubes for high-pressure service
A 249 Welded austenitic steel boiler, superheater, heat-exchanger and condenser tubes
A 250 Electric-resistance-welded ferritic alloy-steel boiler and superheater tubes
A 252 Welded and seamless steel pipes piles
A 254 Copper brazed steel tubing
A 268 Seamless and welded ferritic/martensitic stainless steel tubing for general service
A 269 Seamless and welded austenitic stainless steel tubing for general service
A 270 Seamless and welded austenitic stainless steel sanitary tubing
A 271 Seamless austenitic chromium-nickel steel still tubes for refinery service
A 312 Seamless and welded austenitic stainless steel pipes
A 333 Seamless and welded steel pipe for low-temperature service
A 334 Seamless and welded carbon and alloy steel tubes for low-temperature service
A 335 Seamless ferritic alloy steel pipe for high-temperature service
A 338 Electric fusion welded austenitic chromium nickel alloy steel pipe for high temperature service
A 369 Carbon and ferritic alloy steel forged and bored pipe for high-temperature service
A 376 Seamless austenitic steel pipe for high temperature central station service
A 381 Metal-arc-welded steel pipe for use with high-pressure transmission systems
A 409 Welded large diameter austenitic steel pipe for corrosive or high-temperature service
A 423 Seamless and electric-welded low-alloy steel tubes
A 426 Centrífugally cast ferritic alloy steel pipe for high temperature service
A 430 Austenitic steel forged and bored pipe for high-temperature service
A 450 General requirements for carbon, ferritic alloy, and austenitic alloy steel tubes
A 451 Centrífugally cast austenitic steel pipe for high temperature service
A 500 Cold formed welded and seamless carbon steel structural tubing in rounds and shapes
A 501 Hot formed welded and seamless carbon steel structural tubing
A 511 Seamless stainless steel mechanical tubing
A 512 Cold drawn butt welded carbon steel mechanical tubing
A 513 Electric-resistance-welded carbon and alloy steel mechanical tubing
A 519 Seamless carbon and alloy steel mechanical tubing
A 523 Plain end seamless and electric-resistance-welded steel pipe for high-pressure pipe-type "cable circuits"
A 524 Seamless carbon steel pipes for atmospheric and lower temperatures
A 530 General requirements for specialized carbon and alloy steel pipe
A 539 Electric resistance-welded coiled steel tubing for gas and fuel oil lines
A 554 Welded stainless steel mechanical tubing
A 556 Seamless cold drawn carbon steel feedwater heater tubes

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A 587 Electric-resistance-welded low-carbon steel pipe for the chemical industry
A 589 Seamless and welded carbon steel water-well pipe
A 595 Steel tubes, low-carbon, tapered for structural use
A 618 Hot formed welded and seamless high-strength low-alloy structural tubing
A 632 Seamless and welded austenitic stainless steel tubing (small-diameter) for general service
A 660 Centrifugally cast carbon steel pipe for high temperature service
A 671 Electric-fusion-welded steel pipe for atmospheric and lower temperatures
A 672 Electric-fusion-welded steel pipe for high-pressure service at moderate temperatures
A 688 Welded austenitic stainless steel feedwater heater tubes
A 691 Carbon and alloy steel pipes, electric-fusion-welded for high-pressure service at high temperatures
A 700 Practices for packaging, marking, and loading methods for steel products for domestic shipment
A 714 High strength low-alloy welded and seamless steel pipe
A 771 Austenitic stainless steel tubing for breeder reactor core components
A 774 As welded wrought austenitic stainless steel fittings for general corrosive service at low and moderate temperature
A 778 Welded, unannealed austenitic stainless steel tubular products
A 787 Electric-resistance-welded metallic coated carbon steel mechanical tubing
A 789 Seamless and welded ferritic/austenitic stainless steel tubing for general service
A 790 Seamless and welded ferritic/austenitic stainless steel pipe
A 795 Black and hot-dipped zinc-coated (galvanized) welded and seamless steel pipe for fire protection use
A 803 Welded ferritic stainless steel feed water heater tubes
A 813 Single or double welded austenitic stainless steel pipe
A 814 Cold worked welded austenitic stainless steel pipe
A 822 Seamless cold drawn carbon steel tubing for hydraulic system service
A 826 Austenitic and ferritic stainless steel duct tubes for breeder reactor core components
A 847 Cold formed welded and seamless high strength, low alloy structural tubing with improved atmospheric corrosion resistance
A 851 High frequency induction welded, unannealed, austenitic steel condenser tubes
A 865 Steel pipe, black and hot-dipped, zinc-coated welded and seamless
A 872 Centrifugally cast ferritic/austenitic stainless steel pipe for corrosive environments
A 908 Stainless steel needle tubing
A 928 Ferritic/austenitic duplex stainless steel pipe electric fusion welded with addition of filler metal
B 111 Standard specification for copper and copper-alloy seamless condenser tubes and ferrule stock
B 161 Nickel seamless pipe and tube
B 163 Seamless nickel and nickel alloy condenser and heat exchanger tubes
B 165 Nickel copper alloy (UNS N04400)* seamless pipe and tube
B 167 Nickel chromium iron alloys (UNS N06600, N06601, and N06690) seamless pipe and tubes
B 337 Stainless and welded titanium and titanium alloy pipe
B 338 Seamless and welded titanium and titanium alloy tubes for condensers and heat exchangers
B 407 Nickel iron chrome alloy seamless pipe and tubes
B 423 Nickel iron chromium molybdenum copper alloy (UNSN08825 and N08221) seamless pipe and tubes
B 444 Nickel chromium molybdenum columbium alloys, pipe and tubes
B 533 Nickel iron chromium silicon alloys (UNS N08330) seamless and welded pipe
B 622 Seamless nickel and nickel-cobalt alloy pipe and tube
B 626 Standard specification for welded nickel and nickel-cobalt alloy tube
B 668 Seamless tubes
B 673 UNS N08904, UNS N08925, and UNS N08926 welded pipe for general corrosion applications
B 674 Standard Specification for UNS N08904, UNS N08925, and UNS N08926 welded tube
B 676 Standard specification for UNS N08877 welded tube
B 704 Welded UNS N06625 and UNS N08825 alloy tubes
B 705 Nickel alloy (UNS N06625 AND N08825) welded pipe
B 729 Seamless pipe and tube
F 1083 Pipe, steel, hot-dipped zinc-coated (galvanized) welded for fence structures

AVWA American Water Works Association
C 200 Steel water pipe, 6 inches (150 mm) and larger
C 203 Coal tar protective coatings and linings for steel water pipelines - enamel and tape - hot applied
C 205 Cement-mortar protective lining and coating for steel water pipe - 4 in. (100mm) and larger - shop applied
C 210 Liquid-epoxy coating systems for the interior and exterior of steel water pipelines
C 213 Fusion-bonded epoxy coating for the interior and exterior of steel water pipelines

Tel: +86-21-6090 0836/6090 0838  http://www.klsteel.com  Email: metalsintl@klsteel.com
C 214 Tape coating systems for the exterior of steel water pipelines
C 605 Underground installations of polyvinyl chloride (PVC) pressure pipe and fittings for water

**ANSI American National Standards Institute**
- B 1.20.1 Pipe threads, general purpose (inch)
- B 2.1 Specification for welding procedure and performance qualification
- B 16.25 Butt welding ends
- B 31.1 Power piping
- B 31.3 Process piping
- B 31.4 Liquid transportation systems for hydrocarbons, liquid petroleum gas, anhydrous ammonia, and alcohols
- B 31.8 Gas transmission and distribution piping systems
- B 36.10 Welded and seamless wrought steel pipe
- B 36.19 Stainless steel pipes
- C 80.1 Rigid steel conduits - zinc coated
- C 80.3 Electrical metallic tubing - zinc coated
- C 80.6 Intermediate metal conduit - zinc coated

**UL Underwriters Laboratories**
- 6 Rigid metal conduits
- 797 Electrical metallic tubing
- 1242 Intermediate metal conduit

**CSA Canadian Standards**
- Z 245 - 1 Steel Line Pipe

**SAE Society of Automotive Engineers**
- J 525 Welded and Cold Drawn Low-Carbon Steel Tubing Annealed for Bending and Flaring
- J 526 Welded Low-Carbon Steel Tubing
- J 527 Brazed double wall low-carbon steel tubing
- AMS 5645 Steel bars, forgings, tubing, and rings, corrosion and heat resistant 18CR - 10NI - 0.40TI (SAE 30321) solution heat treated
- AMS 5646 Steel, corrosion and heat resistant, bars, wire, forgings, tubing, and rings 18Cr - 11Ni - 0.60(Cb - Ta) (SAE 30347) solution heat treated
- AMS 5648 Steel bars, forgings, tubing, and rings, corrosion and heat resistant 17CR - 12NI - 2.5MO (SAE 30316) solution heat treated
- AMS 5651 Steel bars, forgings, tubing, and rings, corrosion and heat resistant 25CR - 20NI (SAE 30310) solution heat treated
- AMS 5653 Steel bars, forgings, tubing, and rings, corrosion and heat resistant 17CR - 12NI - 2.5MO (SAE 30316L) solution heat treated
- AMS 5732 Steel bars, wire, forgings, tubing, and rings, corrosion and heat resistant 15CR - 25.5NI - 1.2MO - 2.1TI - 0.006B - 0.30V consumable electrode melted 1800°F (982°C) solution and precipitation heat treated
- AMS 6415 Bars, forgings, and tubing 0.80Cr 1.8Ni 0.25Mo (0.38-0.43C)

**LATIN AMERICA**

**NBR Brazilian Standards**
- 21 220 1762
- Web site: www.abnt.org.br
- 70 Carbon and alloy steel seamless tubes for mechanical applications
- 119 Cold rolled seamless low carbon steel tubes for heat exchangers and condensers
- 120 Manganese tubes electrically welded carbon steel for boilers
- 121 Electrically welded carbon steel tubes for boilers and super heaters for use under high-pressure conditions
- 123 Carbon and alloy steel tubes electrically welded for mechanical applications
- 5003 Steel plating for tubes used for oil and gas fluid transfer
- 5393 Carbon-molybdenum seamless steel tubes for boilers and super heaters
- 5443 Double thickness steel tubes for fluid conduction
- 5577 Steel tubes classified by their method of application
- 5578 Tubular steel products
- 5579 Shape and dimension superficial and internal deficiencies, in tubular steel products
- 5580 Carbon steel tubes for withworth threading, for common use in fluid conduction
- 5581 Low carbon and carbon-molybdenum seamless steel tubes for refinery furnaces
- 5582 Steel-chrome-molybdenum and chrome-molybdenum-silico seamless tubes for refinery furnaces

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5583 Low carbon cold finished seamless steel tubes for heat exchangers
5584 Steel-chrome-molybdenum and chrome-molybdenum-silica cold finished seamless tubes, for heat exchangers
5585 Electrically welded carbon steel tubes for heat exchangers
5586 Carbon steel and alloy ferritic and austenitic steel tubes, seamless or welded, general requirements
5587 Steel tubes for conduction with an ANSI/ASME B1.20.1 thread - basic dimensions
5590 Carbon steel tubes welded or seamless, black or hot dip galvanised for fluid conduction
5591 High temperature carbon steel tubes - additional ISO requirements for application in boilers
5592 Medium carbon seamless steel tubes for boilers and super heaters
5594 Carbon steel seamless tubes for high pressure boilers and super heaters
5595 Carbon steel electrically welded tubes for boilers
5596 Carbon steel electrically welded tubes for high pressure boilers and super heaters
5597 Rigid carbon steel threaded electrical conduit and accessories with protective coating
5598 Rigid carbon steel electrical conduit with protective coating and NBR 6414 thread
5599 Precision made welded carbon steel tubes
5602 Steel tubes, seamless or welded, for low temperatures
5603 Ferritic seamless steel tubes for high temperature fluid conduction
5605 Carbon steel and alloy steel tubes, seamless or welded, for low temperature use (except fluid conduction)
5622 Carbon steel tubes with helical seam for use in water, air and low-pressure steam in industrial installations
5666 Carbon steel and alloy steel tubes for refinery furnaces - welded joints
5689 Materials for asphalt base coating used in steel tubes for water supply conduction
5690 Preparation of asphalt enamel used for steel tubes coating
5922 Steel tubes for fuel injection in diesel engines for use in road vehicles, tractors and similar vehicles
6154 Round steel tubes - flattening test
6205 Round steel tubes - flanging test
6206 Round steel tubes - widening test
6316 Chrome-nickel-steel seamless tubes for refinery furnaces
6321 Seamless carbon steel tubes for the conduction of high temperature fluids
6338 Round steel tubes - bending test
6358 Welded or seamless carbon steel and alloy steel tubes for thermal exchange (boilers, exchangers and furnaces) - basic dimensions
6591 Welded round, square, rectangular and special carbon steel tubes for industrial use
6640 Welded round carbon steel tubes, semi-tube smoothing test.
7433 Tubular steel products - determination of mechanical properties in tension
7543 Seamless or welded, austenitic stainless steel tubes for conduction
7734 Chrome molybdenum steel 4130 for seamless tubes of aeronautical quality
8261 Round, square or rectangular tubular section of cold rolled carbon steel, seamless or welded, for structural use
8476 Precision made seamless steel tubes
8860 Steel tubes - discontinuity detection by parasite currents (eddy - current) with magnetic saturation
8861 Stainless, austenitic and similar alloy steel tubes - discontinuity detection by parasite currents (eddy - current) without magnetic saturation
9791 Flux velocity in steel tubes for naval construction
9797 Electrically welded carbon steel tubes for water supply conduction
9914 Plain end steel tubes for elastic joint
9915 Rubber sealing ring for steel tubes and connections with elastic joint
10252 Ferritic and austenitic seamless alloy steel tubes for boilers super heaters and heat exchangers
10515 Internal coating with cement mortar for carbon steel tubes and fittings
11745 Coal tar based material for the coating of steel tubes used for water supply
11796 Zinc coated steel tubes, PN 150, with a rapid coupling joint for irrigation
12015 Rapid coupling elastic joint for zinc coated steel tubes PN 150 for irrigation - performance check
12016 Zinc coated steel tubes, PN 150, with a rapid coupling joint for irrigation - determination of resistance to short term internal hydrostatic pressure
13061 Plain end steel tubes with elastic joint and nominal diameter between 700 mm and 1200 mm
13222 Application of asphalt enamel in steel tubes and parts used for water supply
13780 Application of a coal based tar enamel in steel tubes and parts used for water supply

NOM Mexican Bureau of Norms
B10 Black and hot dipped galvanized welded carbon steel tubes for general service
B056 Siderurgical industry - Flexible metal conduit
B064 Cast iron soil pipe and fittings

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B 137 Electric resistance-welded carbon steel tubes for low-pressure boilers.
B 177 Black and hot-dipped galvanized welded carbon steel tubes

NOM Mexican Bureau of Norms
B 199 Cold formed welded carbon steel structural tubing in rounds and shapes
B 200 Hot formed welded carbon steel structural tubes with a round or rectangular section
B 208 Steel tubes for the protection of electric cables (conduit) - heavy type
B 209 Steel tubes for the protection of electric cables (conduit) - semi-heavy type
B 210 Steel tubes for the protection of electric cables (conduit) - light and semi-light type
C 012 Fiber reinforced - Cement - Pressure pipes - specifications
C 028 Different forms to expand automotive tubing
C 340 Building industry - prestressed concrete pipes - water sampling for analysis and evaluation of potentially aggressive parameters to the pipeline
D 037 Seamless steel fuel injection tubes used in the automotive industry
E 145 Plastic industry - PVC piping unplasticized poly (vinyl chloride) (PVC) pipes for pressure water supply, english series - specifications
W 019 Tube - brass
W 028 Lead, cadmium and zinc pipes - test method
W 123 Copper and copper alloys products - connections and pipelines - hydrostatic test
W 124 Copper and copper alloys products - connections and pipelines - pneumatic test

COVENIN Venezuelian Commission on Industrial Standards
11 Galvanized pipe for electrical installations
538 Galvanized rigid steel tubes (conduit) for electrical installations
843 Seamless or welded carbon steel tubes for general service in pressurized fluid transportation
1478 Line tubing for general service in the petroleum industry
2063 Cold formed welded and seamless carbon steel structural tubing in rounds and shapes
2541 Casing and production tubing for general service in the petroleum industry
2577 Galvanized steel intermediate metallic tubing for electrical installations
2585 Electric resistance-welded carbon steel tubes for exhaust pipe manufacture for passenger and light commercial vehicles
3030 Seamless and welded carbon, ferritic alloy and austenitic alloy steel tubes. General requirements
3335 Black and hot-dipped galvanized seamless and welded, heavy carbon steel tubes
3336 Black and hot-dipped galvanized seamless and welded, carbon steel tubes for general service

IRAM Argentinian Standards Institute
2592 Electric resistance welded pipe
IAS U 500 - 25 Steel fluid transportation tubes for general service
IAS U 500 - 26 Black and hot-dipped galvanized seamless and welded, carbon steel tubes for fluid transportation

NAG Argentinian Standards
150 Steel pipes for gas transportation in internal installations

EUROPE
EN European Committee for Standardization
39 Steel tubes for scaffolding
253 Preinsulated bonded pipe systems for underground hot water networks - pipe assembly of steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
448 Preinsulated bonded pipe systems for underground hot water networks - fitting assemblies of steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
489 Preinsulated bonded pipe systems for underground hot water networks - joint assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
545 Ductile iron, pipes, fittings, accessories and their joints for water pipelines - requirements and test methods
598 Ductile iron pipes, fittings, accessories and their joints for sewerage application - requirements and test methods
640 Reinforced concrete pressure pipes and distributed reinforcement concrete pressure pipes (non-cylinder type), including joints and fittings
641 Reinforced concrete pressure pipes, cylinder type, including joints and fittings
642 Prestressed concrete pressure pipes, cylinder and non-cylinder, including joints, fittings and specific requirements for prestressing steel for pipes
969 Ductile iron pipes, fittings accessories and their joints for gas pipelines - requirements and test methods

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1057 Copper and copper alloys - seamless, round copper tubes for water and gas in sanitary and heating applications
1127 Stainless steel tubes - dimensions, tolerances and conventional masses per unit length
9455 - 12 Soft soldering fluxes - test methods - steel tube corrosion test
10208 Steel pipes for pipelines for combustible fluids - technical delivery conditions
10208 - 1 Steel pipes for pipelines for combustible fluids - technical delivery conditions - pipes of requirement class A
10208 - 2 Steel pipes for pipelines for combustible fluids - technical delivery conditions - pipes of requirement class B
10210 - 1/2 Hot finished structural hollow sections of non-alloy and fine grain structural steel
10210 - 1 Hot finished structural hollow sections of non-alloy and fine grain structural steels - technical delivery requirements
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5462 Seamless steel tubes - tubes for boilers, appliances and piping for high-pressure, high-temperature heating systems - quality, specifications and testing
5745 Hot dip zinc coating of steel tubes - specifications and testing

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Low temperature service
Conical gas threads for cable conduit tubes and relative fittings for explosion-proof electrical equipment (ADPE).
(ICS code: 21.040.30)
Seamless and welded steel tubes for water pipes
Seamless tubes of special alloyed corrosion and heat resisting stainless tubes
Welded unalloyed steel tubes - plain tubes for general service
Plain end seamless tubes of basic unalloyed steel
Plain end non alloy steel welded tubes (ICS code: 23.040.10)
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19 043 Carbon steel tubes for threading - measurements and masses - light 2 series
19 045 Welded carbon steel tubes for threading - tolerances and characteristics
19 047 Galvanised welded steel tubes for water supply (hot and cold)
19 049 - 1 Tubos de acero inoxidable para instalaciones interiores de agua fria y caliente - tubos
19 051 Welded steel tubes (not galvanized) for interior water installations
36 086 Steel tubes, high frequency longitudinally seam ed
36 593 Plain end welded precision steel tubes - technical conditions for delivery
36 594 Plain end as welded and sized precision steel tubes - technical conditions for delivery
36 595 Square and rectangular steel tubes for ordinary uses, longitudinally pressure welded, cold formed and externally calibrated - dimensions - technical delivery conditions
36 864 Steel tubes, longitudinally welded, for pipelines and for reception installations of gaseous-fuel used no higher than 4 bar

**NEN Dutch Standards**

2769 Steel tubing for construction and scaffolding - requirements and testing methods
3257 Steel conveyorance pipes and sockets
6902 External polyethylene coating for underground steel pipes and fittings

**SIS Swedish Standards**

MNC 525 Steel - semi-manufactured products - tubes
MNC 811 Structural steels - tubes
MNC 831 Pressure vessel steels - tubes
SMS 326 Seamless and welded steel tubes suitable for screwing - medium series
SMS 327 Seamless and welded steel tubes suitable for screwing - heavy series
SMS 328 Steel tubes - tube sockets
SMS 887 Seamless steel tubes for mechanical application
SMS 1777 Seamless and welded steel tubes - dimensions and weights
SMS 1786 Seamless non-screwed steel tubes for general purposes
SMS 1795 Seamless steel tubes - cold worked precision steel tubes
SMS 1886 Welded non-screwed steel tubes for general purposes
SMS 1895 Welded steel tubes - cold worked precision steel tubes

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SMS 3008 Seamless and welded stainless steel tubes - tubes for the food industry
SS 1787 Seamless steel tubes for pressure purposes
SS 1887 Welded steel tubes for pressure purposes
SS 2353 Cold drawn precision steel tubes for fluid power system
SS 2874 Lighting columns of steel tubes - columns designed for recreation grounds
SS 3001 Seamless stainless steel tubes
SS 3002 Welded stainless steel tubes
SS 3044 Seamless and welded stainless precision steel tubes
SS 11 43 05 Non-destructive testing - eddy current testing - steel - tubes
SS 21 97 01 Steel tubes for pressure purposes - technical delivery requirements
SS 21 97 03 Steel tubes for pressure purposes - technical delivery requirements
SS 21 97 11 Stainless steels - tubes for pressure purposes - test category I - technical delivery requirements
SS 21 97 13 Stainless steels - tubes for pressure purposes - test category II - technical delivery requirements
SS 21 97 16 Stainless steel tubes - welded tubes for pressure purposes - technical delivery requirements
SS 21 97 17 Stainless steel tubes - welded tubes for pressure purposes - technical delivery requirements
SS 21 97 18 Stainless steel tubes - welded tubes for pressure purposes - technical delivery requirements
SS ISO 6535-1 Compression-ignition engines - steel tubes for high-pressure fuel injection pipes - requirements for seamless cold drawn single wall tubes
SS-HD 1039 Steel tubes for falsework and scaffolds - requirements and tests

SFS Finnish Standards
2005 ISO 4200 Plain end steel tubes, welded and seamless - general tables of dimensions and masses per unit length
2006 Seamless steel tubes, dimensions and weights
2007 Welded steel tubes - dimensions
2009 Seamless steel precision tubes, cold drawn and cold rolled - dimensions
2010 Steel tubes - tolerance systems
2144 Seamless steel tubes - steel Fe 00
2145 Seamless steel tubes - steel Fe 35
2146 Seamless steel tubes - steel Fe 45
2147 Seamless steel tubes - steel Fe 52
2148 Seamless steel tubes - steel Fe 55
2167 Welded steel pipes for gas, water and sewage
2230 Hydraulic piping - coupling threads, joint surfaces and tubes
2249 Wrought copper and copper alloys - seamless copper tubes for general purposes
2680 Pipes and fittings of grey iron for waste water - technical requirements for delivery
2681 Pipes of grey iron for waste water - dimensions
2689 Pipes for waste water - double branches diam. 80
2690 Pipes for waste water - corner branches diam. 87,5
2692 Pipes for waste water - inspection pipes
2693 Pipes for waste water - elbow diam. 87,5 for toilet
2694 Pipes for waste water - branches diam. 87,5 for toilet
2695 Pipes for waste water - straight connections for toilet
2723 Pipes and fittings of grey iron for waste water - joining pieces
3312 Steel tubes, medium weight - suitable for screwing
3313 Steel tubes, heavy weight for screwing
3314 Hot dip galvanized zinc-coatings on steel tubes
3347 Materials for pressure vessels - steel pipes
3511 Pipes for waste water - single branches diam. 45, 67,5 and 87,5
3512 Pipes for waste water - straight connections for toilet
3513 Pipes for waste water - straight connections for toilet
3514 Pipes for waste water - S-pipe
3980 Welded stainless steel mechanical tubing - dimensions and sectional properties
4161 Welded stainless steel pipes - dimensions, weights, pressure factors and technical delivery requirements
4174 Steel tubes - T-connections
4753 Service piping - fire fighting system indoors DN 50
4754 Service piping - fire fighting system outdoors 2 x DN 80
5128 Steel tubes - welded precision tubes - dimensions and material
5322 Steel tubes - extruded T-pipes
5590 Austenitic stainless steel piping - vacuum pipes - reinforcement ring

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ISIRI Institute of Standards and Industrial Research of Iran

3360 Home gas pipes
3765 Water pipes

**GOST Russian standards**

550 Seamless steel tubes for petroleum processing and petrochemical industry - specifications
631 Internal-external upset drill pipes with couplings - specifications
632 Casing pipes with couplings - technical conditions
633 Tubing pipes and couplings - specifications
800 Bearing tubes - technical requirements
1060 Cold deformed seamless steel tubes for shipbuilding - specifications
3262 Water-supply and gas-supply steel pipes - technical conditions
5005 Steel electrowelded cold-deformed pipes for cardan shafts - specifications
6238 Casing and coring pipes for geology-exploring drilling and nipples for them - specifications
7909 Drill prospecting pipes and sockets - specifications
8639 Square steel pipes - range
8645 Rectangular steel tubes - range
8696 General-purpose electrically-welded spiral seam steel pipes - specifications
8731 Seamless hot rolled steel pipes - technical requirements
8732 Seamless hot deformed steel pipes - range of sizes
8733 Seamless cold and warm deformed tubes - technical requirements
8734 Seamless steel tubes cold deformed - range
9567 Precision steel tubes - range
9940 Seamless hot deformed tubes made of corrosion resistant steel
9941 Seamless cold and warm deformed tubes of corrosion-resistant steel - specifications
10498 Especially thin-walled seamless tubes from corrosion-resistant steel - specifications
10704 Electrically welded steel line-weld tubes - range
10705 Electrically welded steel tubes - specifications
10706 Electrically welded steel line-weld tubes - technical requirements
10707 Steel cold formed electrically welded tubes - technical conditions
11017 Steel seamless tubes for high pressure service - technical conditions
11068 Electrically tubes made of corrosion resistant steel - specifications
11249 Steel rolled up soldered double-layer tubes - technical conditions
13663 Shaped steel tubes - technical requirements
14162 Steel tubes of small dimensions (capillary) - specifications
19277 Seamless steel tubes for oil and fuel-lines - specifications
20295 Steel welded pipes for main oil and gas pipelines
21729 Cold deformed and hot-deformed structural carbon and alloyed steel tubes
21945 Seamless hot rolled tubes from alloys based on titanium - specifications
22897 Seamless cold deformed pipes from alloys based on titanium - specifications
23270 Tubes-billets for mechanical treatment - specifications
24030 Corrosion resistant steel seamless tubes for power engineering industry - specifications
26250 Drill pipes for borehole tools with removable core lifts – specifications

**TS Turkish Standards**

301 Seamless and welded steel pipes with thread
302 Seamless precision steel tubes
346 Seamless, circular, unalloyed steel tubes for special purposes
381 Seamless steel pipes - temperature and pressure resistant
416 Welded steel pipes for general purposes
914 Internal and external galvanizing
1997 Flat - spiral welded unalloyed steel tubes
2169 Underground steel pipes corrosion protection rules
4356 Rules for hot applied bituminous coatings for corrosion protection of steel pipes
4357 Rules for hot applied coal tar based coatings for corrosion protection of steel pipes
5130 Copper brazed double wall steel tubes
5139 Rules for applied polyethylene coating for corrosion protection of steel pipes
5140 Rules for applied coal-tar epoxy coating for corrosion of steel pipes
5141 Rules of cathodic protection of underground steel pipeline
5317 Welded square and rectangular steel tubes
5437 Welding ends - preparation of ends of steel tubes and fittings for welding

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Non destructive testing methods eddy current examination of steel pipes and tubes

Line pipes, steel - for oil and natural gas industries

Welded precision steel tubes

Rectangular and square, welded, precision steel tubes for general use

Welded and sized precision steel tubes

Tubes - stainless steel - dimension, tolerance and unit length values

Steel tubes - tolerance systems

Steel tubes and tubular shaped accessories with circular cross - section - symbols to be used in specifications

Stove pipes, stoves pipe elbows, stove pipe rosette-sheet steel

Natural gas pipeline - steel piping systems design rules

Concrete protective coating of steel water pipes

Steel tubes for heat exchangers - welded

Steel tubes for heat exchangers - seamless

Steel tubes for rolls for conveyor belt idlers

Natural gas service liner - rules for design and installation of steel line pipes

Petroleum and natural gas industries - steel pipes for use as drill pipes – specification

Seamless tubes from unalloyed steels with increased quality requirements

Seamless tubes from unalloyed steels for general purposes

Seamless steel tubes - dimensions and masses per unit length

Steel tubes suitable for screwing

Steel tubes suitable for screwing - heavy series tubes

Seamless ferritic and austenitic steel tubes

Cold drawn precision seamless carbon and alloy steel tubes

Steel tubes suitable for screwing - medium series

Steel tubes suitable for screwing - heavy series

Hot formed seamless steel tubes

Hot formed seamless steel with small tolerances

Hot formed seamless square and rectangular steel tubes (including dimensions)

Spiral weld steel pipes

Seamless hot formed ferritic and austenitic steel tubes

Seamless spigot steel tubes

Seamless spigot steel tubes for butt-welding

Steel tubes with double borders and rotary flange

Cold drawn seamless carbon and alloy steel tubes with normal tolerances

Precision seamless steel tubes

Precision seamless steel tubes with increased accurancy

Precision hexagonal seamless steel tubes (including dimensions)

Seamless precision cold-formed ferritic and austenitic steel tubes

Seamless tubes from unalloyed steels with increased quality requirements

Seamless tubes from unalloyed steels for general purposes

Seamless steel tubes - dimensions and masses per unit length

Steel tubes suitable for screwing

Steel tubes suitable for screwing - heavy series tubes

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120 - 2 Steel tubes suitable for screwing - medium series
120 - 3 Steel tubes suitable for screwing - light series tubes
185 Longitudinal welded steel tubes - dimensions
186 - 1/2 Longitudinal welded steel tubes
186 - 1 Longitudinal welded steel tubes - commercial quality tubes
186 - 2 Longitudinal welded steel tubes - high quality tubes
326 Hot rolled channel sections - dimensions
382 - 1/2 Calibrated longitudinal welded steel tubes
382 - 1 Calibrated longitudinal welded steel tubes - dimensions
382 - 2 Calibrated longitudinal welded steel tubes - technical specification
2898 - 1/2 Cold drawn or cold rolled seamless precision steel tubes
2898 - 1 Cold drawn or cold rolled seamless precision steel tubes - dimensions and masses per unit length
2898 - 2 Cold drawn or cold rolled seamless precision steel tubes - technical requirements
2978 - 1/2 Cold drawn or cold rolled precision steel tubes
2978 - 1 Cold drawn or cold rolled welded precision steel tubes
2978 - 2 Cold drawn or cold rolled welded precision steel tubes - technical specification
3156 Drill pipes
3160 Steel casing with whitworth threads
3741 Spiral weld steel pipes with high quality requirements
3770 Spiral weld steel pipes with special quality requirements
4051 Seamless steel tubes with special quality requirements
4398 Longitudinally welded stainless and heat resisting steel tubes
4747 Steel tubes for elevated temperatures
7262 Cold formed steel sections - general technical requirements and tolerances
7328 Cold formed hollow steel sections - dimensions
17718 Rolled steel bell sections for mine safety framing

**PN Polish Standards**
75 / H 74253 Steel seamless flanged pipes
76 / G 44001 Flanged pipes for hydraulic filling
80 / H 74219 Steel seamless tubes for general application
83 / H 84017 Weather resistant tubes
84 / H 74220 Steel seamless tubes cold-rolled and drawn
85 / H 74252 Steel seamless boiler tubes
91 / H 74240 Steel seamless precision tubes

**BN Polish Standards**
75 / 0648 - 60 Steel seamless pipes with tapered socket
79 / 0656 - 01 Cold formed closed sections (welded)
82 / 0442 - 04 Flanged pipes for hydraulic filling
84 / 0648 - 81 Low alloy steel seamless tubes for operation at elevated temperature
85 / 0648 - 62 Steel seamless pipes for shipbuilding
85 / 0648 - 82 Hot rolled steel seamless tubes for mining hydraulic cylinders - dimensions
85 / 0648 - 83 Constructional steel seamless tubes with improved quality and for machining

**TU Ukrainian Standards**
1104 - 138100 Corrosion resistant gas line pipes
14 - 152 - 19 Electrically welded carbon steel pipes
14 - 152 - 21 Electrically welded rectangular (square) carbon steel pipes
14 - 159 - 233 Electric welded water and gas pipe from carbon steel
14 - 161 - 126 Seamless cold worked titanium-based alloy tubing
14 - 161 - 128 Gas-lift pipes with threaded coupling and polymer seal
14 - 161 - 140 Casing pipes with buttress thread
14 - 3 - 143 Steel tubing for tubular rivets
14 - 3 - 156 - 6 Spiral welded pipes - corrosion resistant water pipelines
14 - 3 - 190 Electric longitudinaal welded pipes - stainless steel
14 - 3 - 197 Seamless pipes made of corrosion-resistant steel grades with improved surface quality
14 - 3 - 251 Seamless tubes for plants of chemical and oil-chemical industry relative pressure
14 - 3 - 328 Tubes of special forms for motor-car industry
14 - 3 - 349 Seamless thin-walled finned pipes (4 fins)
14 - 3 - 460 Electric longitudinaal welded pipes - stainless steel

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14 - 3 - 474 Thin-walled cold deformed pipes from carbon and alloy steel
14 - 3 - 491 External upset geological prospecting drill pipes without threading
14 - 3 - 514 Casing pipes with FUM band seal of threaded joints
14 - 3 - 523 Steel pipes with polyethylene lining and connectors for them
14 - 3 - 615 Seamless cold worked titan-based alloy tubing
14 - 3 - 721 Spiral welded pipes - gas-oil line pipes
14 - 3 - 796 Seamless cold-finished tubes for steam boilers and pipelines from corrosion resistance steel grade
14 - 3 - 808 Spiral welded pipes - nuclear power station pipelines
14 - 3 - 820 Seamless cold worked titan-based alloy tubing
14 - 3 - 876 Steel non-threaded cold-finished tubes for shells with demountable core receivers
14 - 3 - 913 Longitudinal one seam submerged arc welded pipe for oil-gas
14 - 3 - 954 Spiral welded pipes - eating system pipelines
14 - 3 - 1128 Seamless hot worked steel pipe for gas-lift pipeline systems and oil and gas field equipment
14 - 3 - 1141 Brazed rolled-up double-ply steel tubing
14 - 3 - 1165 Square and rectangular tubing - alloyed steel
14 - 3 - 1171 Square and rectangular tubing - alloyed steel
14 - 3 - 1219 Bimetallic centrifugal-casted pipes, steel 30 outside
14 - 3 - 1228 Steel flat-oval drawn tubes
14 - 3 - 1282 Pump-compressor pipes with couplings - smooth and high pressure-sealed with increased plasticity and coldresistance
14 - 3 - 1318 Clad high precision pipes from corrosion-resistant grade of steel
14 - 3 - 1354 Steel non threaded pipes for casing and core geological prospecting pipes
14 - 3 - 1364 Spiral welded pipes - 75 Atmospheres Gas Line Pipes
14 - 3 - 1424 Longitudinal one seam submerged arc welded pipe for oil-gas
14 - 3 - 1464 Longitudinal double seam submerged arc welded pipe for oil-gas
14 - 3 - 1487 Casing pipes in ERW modification (OTTM thread)
14 - 3 - 1534 Pump-compressor pipes with couplings - smooth with polymer seal
14 - 3 - 1571 Drill pipes with welded tool-joints
14 - 3 - 1588 Pump-compressor pipes with couplings - smooth and high pressure-sealed with increased plasticity and coldresistance
14 - 3 - 1600 Hor-worked pipe made out of steel grade 20UCH
14 - 3 - 1601 Seamless hot rolled Pipes - steel coupling pipes
14 - 3 - 1611 Casing geological prospecting pipes with gauged ends with right-handed threading
14 - 3 - 1618 Seamless hot rolled pipes - gas lifting system, gas-oil deposit equipment cold-resistant
14 - 3 - 1649 Thermally insulated oil and gas well pipes
14 - 3 - 1667 Casing pipes with polymer seals
14 - 3 - 1701 Seamless hot rolled pipes - oil transfer
14 - 3 - 1736 Casing pipes with increased plasticity and cold resistance
14 - 3 - 1747 Centrifugal-casted pipes
14 - 3 - 1760 Seamless hot rolled pipes - gas-oil pipelines, municipal economy, mechanical engineering
14 - 3 - 1762 Drill pipes with welded tool-joints having a reduced diameter
14 - 3 - 1772 Pump-compressor pipes
14 - 3 - 1780 Cold finished clad thin welded pipes of large diameters made of corrosion-resistant grade of steel
14 - 3 - 1801 Seamless hot worked steel pipe for gas-lift pipe systems and oil and gas field equipment of northern regions
14 - 3 - 1831 Seamless hydrogen-sulfate-resistant pipe made out of steel grade 12GF-PV
14 - 3 - 1840 Spiral welded pipes - corrosion water pipelines
14 - 3 - 1849 Drill pipes with welded tool-joints
14 - 3 - 1850 Drill pipes with pipe end upset
14 - 3 - 1865 Seamless hot rolled pipes - for mechanized mine fasteners
14 - 3 - 1875 Longitudinal double seam submerged arc welded pipe for oil-gas
14 - 3 - 1894 Cold-finished tubes of variable section
14 - 3 - 1895 Longitudinal one seam submerged arc welded pipe for oil-gas
14 - 3 - 1918 Casing and core pipes for geological prospecting drilling and nipples for them Nipple joint with right-handed trapezium-shaped threading
14 - 3 - 1919 Geological prospecting drill pipes and couplings
14 - 3 - 1927 Drill pipes with prior mounted joints and couplings.
14 - 3 - 1938 Longitudinal double seam submerged arc welded pipe for oil-gas
14 - 3 - 1963 Seamless hot rolled pipes - pipe laying of wells and constructions
39 - 0147016 - Casing pipes in ERW modification (buttress thread)
39 - 0147016 - Pipe for general maintenance of drill holes
U 322 - 8 - 14 Longitudinal one seam submerged arc welded pipe for oil-gas

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U 322 - 8 - 21 Longitudinal one seam submerged arc welded pipe for oil-gas
Y 322 - 8 - 10 Longitudinal one seam submerged arc welded pipe for oil-gas

ASIA
JIS Japanese Industrial Standards
A 5525 Steel pipe piles
C 8305 Rigid steel conduits
G 3429 Seamless steel tubes for high pressure gas cylinder
G 3441 Alloy steel tubes for machine purposes
G 3442 Galvanized steel pipes for water service
G 3443 Coated steel pipe for water service
G 3444 Carbon steel tubes for general structural purposes
G 3445 Carbon steel tubes for machine structural purposes
G 3446 Stainless steel tubes for structure purposes
G 3447 Stainless steel sanitary tubing
G 3448 Light gauge stainless steel pipes for ordinary piping
G 3452 Carbon steel pipes for ordinary piping
G 3454 Carbon steel pipes for pressure service
G 3455 Carbon steel pipes for high pressure service
G 3456 Carbon steel pipes for high temperature service
G 3457 Arc welded carbon steel pipes
G 3458 Alloy steel pipes
G 3459 Stainless steel pipes
G 3460 Steel pipes for low temperature service
G 3461 Carbon steel boilers and heat-exchanger tubes
G 3462 Alloy steel boiler and heat-exchanger tubes
G 3463 Stainless steel boiler and heat-exchanger tubes
G 3464 Steel heat exchanger tubes for low temperature service
G 3465 Seamless steel tubes for drilling
G 3466 Carbon steel square pipes for general structural purposes
G 3467 Steel tubes for fire heater
G 3468 Arc welded large diameter stainless steel pipes
G 3469 Polyethylene coated steel pipes
G 3472 Electric resistance welded carbon steel tubes for automobile structural purposes
G 3473 Carbon steel tubes for cylinder barrels
G 3474 High tensile strength steel tubes for lower structural purposes
G 3491 Alspahlt protective coatings for steel water pipe
G 3492 Coal-tar enamel protective coating for steel water pipe
G 4903 Seamless nickel-chromium-iron alloy pipes
G 4904 Seamless nickel-chromium-iron alloy heat exchanger tubes
H 4631 Titanium pipes and tubes for ordinary piping

KS Korean Sandards
B 0222 Taper pipe threads
C 8401 Rigid steel conduits
D 3507 Carbon steel pipes for ordinary piping
D 3517 Carbon steel tubes for machine structural purposes
D 3536 Stainless steel tubes for machine and structural purposes
D 3537 Galvanized steel pipes for water service
D 3562 Carbon steel pipes for pressure service
D 3563 Carbon steel tubes for boiler and heat exchanger
D 3564 Carbon steel pipes for high pressure service
D 3565 Coated steel pipes for water works
D 3566 Carbon steel tubes for general structural purposes
D 3568 Carbon steel square pipes for general structural purposes
D 3569 Steel pipes for low temperature service
D 3570 Carbon steel pipes for high temperature service
D 3571 Steel heat exchanger tubes for low temperature service
D 3572 Alloy steel boiler and heat exchanger tubes
D 3573 Alloy steel pipes
D 3574 Alloy steel tubes for machine purposes

Tel: +86-21-6090 0836/6090 0838  http://www.klsteel.com  Email: metalsintl@klsteel.com
D 3575 Seamless steel tubes for high pressure gas cylinder
D 3576 Stainless steel pipes
D 3577 Stainless steel tubes for high pressure gas cylinder
D 3583 Arc welded carbon steel pipes
D 3584 Seamless steel oil well casing, tubing and drill pipe
D 3585 Stainless steel sanitary tubing
D 3587 Steel tubes for fired heater
D 3588 Arc welded large diameter stainless steel pipes
D 3589 Polyethylene coated steel pipes
D 3595 Light gauge stainless steel pipes for ordinary piping
D 3598 Electric resistance welded carbon steel tubes for automobile structural purposes
D 3607 Polyethylene coated steel pipes by powder fusion
D 3608 Steel pipes coated on the interior and exterior with epoxy powder coatings for water works
D 3618 Carbon steel tubes for cylinder barrels
D 3619 Polyethylene powder lining steel pipes for water works
D 3620 Fluoride resin coated double wall steel pipe for water works
D 3623 Corrosion resistance welded steel pipes for water service
D 3626 Coated steel pipes for water service
D 3628 Stainless steel flexible pipes
D 3757 Seamless nickel - chromium iron alloy heat exchanger tubes
D 3758 Seamless nickel - chromium iron alloy pipes
D 3759 Titanium-palladium alloy pipes and tubes for ordinary piping and heat exchanger
D 3760 Galvanized steel pipes for vinyl housing
D 3761 Unplasticized polyvinyl chloride lining steel pipes
D 3780 High tensile strength steel tubes for tower structural purposes
D 4602 Steel pipe piles
D 8306 Asphalt protective coatings for steel water pipe
D 8307 Coal-tar enamel protective coating for steel water pipe
D 8502 Liquid epoxy resin coating
F 4602 Steel pipe piles
F 8001 Steel pipe supports
F 8002 Steel pipe scaffolding
F 8003 Prefabricated steel pipe scaffolding
V 3983 Dredging pipe

**GB Chinese National Standards**
T8163 Pipe for liquid transportation
T8162 Structure pipe
T5312 Tube for shipbuilding
T8713 Cold drawn high precision tube
3087 Seamless steel tubes for low and medium pressure boiler
3091 Galvanized welded steel pipe for low-pressure service
3092 Welded steel pipe for low pressure service
3093 High-pressure seamless steel tubes for diesel engine
3094 Cold drawn seamless special-shape steel pipe
T3639 Cold drawn or cold rolled precision seamless steel tubes
5310 Seamless steel tubes and pipes for high pressure boiler
5312 Carbon steel seamless steel tubes for ship
6479 High pressure seamless steel tubes for chemical fertilizer equipments
6728 Square and rectangular tubing (dimension and weight)
8162 Hot rolled seamless tubes for pipeline, vessel and equipment structures
8163 Fluid transferring pipe
9711 Spirally submerged - arc welded steel pipe for oil and naturel gas
9948 Seamless steel tubes for petroleum cracking
13296 Seamless stainless steel tubes for boiler and heat exchanger
13792 Longitudinally welded pipe
13793 Longitudinal pipe
14291 Longitudinally welded pipe
14975 Stainless steel seamless tubes for structures
14976 Stainless steel seamless pipes for fluid transport
14980 Major diameter welded steel pipe for low pressure liquid service

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**SY Chinese National Standards**
5036 Spirally submerged - arc welded steel pipe for pressure service
5037 Spirally submerged - arc welded steel pipe for ordinary fluid
5038 Spirally ERW line pipe for pressure fluid service - mill hydrostatic test pressure
5039 Spirally ERW line pipe for general low - pressure fluid service - mill hydrostatic test pressure
5040 Spirally submerged - arc welded steel pipe for piling
5297 Longitudinal pipe
5384 Longitudinal pipe

**YB**
T5052 Geological drilling pipe
T5035 Seamless steel tube for auto semi-shaft casing
n1 Tube for cannon
235 Geological Drilling Tube
2056 Welded steel pipes for low pressure use
2606 Rigid steel conduits
4028 Welded Steel Pipe for Deep-Well Dump
4178 Welded steel pipes
4435 Carbon steel tubes for general structural purposes
4437 Carbon steel tubes for machine structural purposes
4626 Carbon steel pipes for pressure service
5802 Stainless steel tube for mechanical and structural purposes
6445 Carbon steel pipes for ordinary piping
7141 Carbon steel square pipes for general structural purposes
7883 Stainless steel boiler and heat-exchanger tubes

**IS Indian Standards**
1161 Steel tubes for structural purposes
1239 Mild steel tubes, tubulars and other wrought steel fittings
1914 - 1/4 Carbon steel boilers tubes and superheater tubes
1978 Line pipes
1979 High test line pipe
2039 - 1/3 Steel tubes for bicycle and allied purposes
2416 Boiler and superheater tubes for marine and naval purposes
3074 Steel tubes for automotive purposes
3589 Seamless or electrically welded steel pipes for water, gas and sewage (169,3 to 2032 mm outside diameter)
3601 Steel tubes for mechanical and general engineering purposes
3609 Chrome molybdenum steel, seamless, boiler and superheater tubes
4270 Steel tubes used for water wells
4516 Elliptical mild tubes
4711 Methods for sampling of steel pipes, tubes and fittings
4712 Forged steels, socket-welding
4922 Hollow steel section for structural use
4923 Hollow steel tubes (suitable for welding for aircraft purposes)
5429 Dimensions for steel tubes for automotive purposes
5433 Oil well steel casing pipes and couplings
5504 Spiral welded pipes
5929 Inspection and testing procedure for circular steel tubes for aircraft purposes
6011 Carbon steel tubes for use on board ships for pressure services
6286 Tubes for low temperature service
6392 Seamless ferritic alloy steel pipes for high temperature steam service
6631 Steel pipes for hydraulic purposes
6647 Drill pipes for use in oil or natural gas wells
6913 Stainless steel tubes for the food and beverage industry
7138 Steel tubes for furniture purposes
7174 Carbon steel tubes for use on board ships for working pressure 0,7 to 1,7 N / mm
8036 Mild steel transformer cooling tubes
8119 Copper brazed steel tubing

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9158 Cold drawn high pressure fluid power cylinder tubes
9295 Steel tubes for idler for belt conveyers
10577 Lancing pipes
11714 - 1/5 Steel tubes for heat exchangers
11722 Thin walled flexible quick coupling pipes
12620 Seamless steel tubes for manufacturing high pressure gas cylinders
12791 High carbon chromium (bearing) steel tubes for the manufacture of bearing races

**SNI Indonesia National Standards**
05 - 0069 Union pipe (conduit)
07 - 0039 Zinc coated steel pipes - specification and test method
07 - 0067 Carbon steel pipes for machines structures - specification and test method
07 - 0068 Carbon steel pipes for general structure - specification and test method
07 - 0071 Spiral welded steel pipes - specification and test method
07 - 0242 Specification and test method of seamless steel pipes for steam boilers and superheaters
07 - 0537 Steel pipes for petroleum and natural gas pipeline
07 - 0726 High tested steel pipes for petroleum and natural gas pipeline
07 - 1313 Steel pipes for water supply - interior layer using cement mix
07 - 1343 Coal for enamel exterior protective coatings steel pipes
07 - 1857 Grey cast iron ground pipe
07 - 2858 Stainless steel pipes
07 - 3074 Cast iron drainage pipes and fittings - spigot series
07 - 3081 Ductile cast iron pipes and accessories for non pressure pipes lines
07 - 3090 Straight circular sheet metal ducts with a lock type spiral seam and straight rectangular sheet metal duct for air distribution

**AS Australian Standards**
1074 Steel tubes and tubulars for ordinary service
1163 Structural steel hollow sections
1281 Cement mortar lining of steel pipes and fittings
1396 Steel water bore casing
1450 Steel tubes for mechanical purposes
1518 Extruded high density polyethylene protective coating for pipes
1579 Arc welded steel pipes and fittings for water and waste water
1722 - 1 Pipe threads of whitworth form - sealing pipe threads
1722 - 2 Pipe threads of whitworth form - fastening pipe threads
2885-1 Pipelines - Gas and liquid petroleum Part 1: Design and Construction
4041 Pressure piping
4118 - 2.1 Fire sprinkler systems - piping - General
4750(INT)-200 Electrogalvanized (zinc) coatings on ferrous hollow sections

**Coating Specifications:**
CAN/CSA-Z245.20 External Fusion Bond Epoxy Coating for Steel Pipe
CAN/CSA Z245.21 External Polyethylene Coating for Pipe
LDIN 30670 Polyethylene Sheathing of Steel Tubes and of Steel Shaped Fittings
DNV-RP-F106 Factory Applied External Pipeline Coatings For Corrosion Control
EN 10286 Steel tubes and fittings for onshore and offshore pipelines—External three layer extruded polypropylene based coatings.
AS 3862 External Fusion-Bonded Epoxy Coating for Steel Pipes
AS/NZS 1518 External Extruded High-Density Polyethylene Coating System for Pipes
AS/NZS 1516 Cement Mortar Lining of Pipelines In Situ
AWWA C200-97: Steel Water Pipe-6 In. (150 mm) and Larger
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 Tpae Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipe
AWWA C210: Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines

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AWWA C214-00: Tape 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 C218-02: Coating the Exterior of Aboveground Steel Water Pipelines and Fittings
AWWA C219-01: Bolted, Sleeve-Type Couplings for Plain-End Pipe
AWWA C222-99: Polyurethane Coatings for the Interior and Exterior of Steel Water Pipe and Fittings
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
ISO/DIS 21809, Petroleum and natural gas industries -- External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 1: Polyolefin coatings (3-layer PE and 3-layer PP)
-Part 2: Fusion-bonded epoxy coatings
IPS-G-TP-335 Material and Construction Standard for Three Layer Polyethylene Coating System
BS 5493-Polyurethane
# Heavy Plate Specification

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<td>16Mn 14MnNd</td>
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<td>WH60/Q460 (C.D.E)</td>
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## Alloy Structural Steel

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## Low Alloy High Strength Steel Plate

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<thead>
<tr>
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<th>A572MGr.42</th>
<th>SS490</th>
<th>S275JR S275N</th>
<th>St44-3</th>
<th>43A</th>
<th>Fe430A</th>
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## 16Mn 14MnNd

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<th>S355JR S355JO</th>
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<th>E355DD</th>
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## Q345 (A.B.C.D.E)


## Q390 (A.B.C.D.E)

| Q390 (A.B.C.D.E) | A572 | SM520B |               | StE380 | 50F |

## 15MnV

| 15MnV | A633MGr.50 | SM490 (YA, YB) | StE380 | 50F |

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## Q420 (A.B.C.D.E.)

| Q420 (A.B.C.D.E.) | A633MGr.E | S420NL |        | E420E |

## WH60/Q460 (C.D.E)

| WH60/Q460 (C.D.E) | A572MGr.65 | SM570 | S460N S460NL | StE460 | 55C | E460CC |

## 16Mnq 14MnNdq

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## 15MnVq

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## 15MnVNq

| 15MnVNq | A633MGr.E |       |       |       |

## Alloy Structural Steel

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**Pressure Vessel Plate**

- ASTM A20/A20M Standard Specification for General Requirements for Steel Plates for Pressure Vessels
  - A202(GrA,B)
- ASTM A203/A203M Standard Specification for Pressure Vessel Plates, Alloy Steel, Nickel
  - A203(GrA,B,D,E,F)
- ASTM A204/A204M Standard Specification for Pressure Vessel Plates, Alloy Steel, Molybdenum
  - A204(GrA,B,C)
  - A225(GrB,C)
- ASTM A240/A240M Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
  - A240(GrB,C,D)
  - A283(GrA,B,C)
  - A285(GrA,B,C)
- ASTM A299/A299M Standard Specification for Pressure Vessel Plates, Carbon Steel, Manganese-Silicon
  - A299(GrA,B)
  - A302(GrA,B,C,D)
  - A353(Gr2.11.12.21.21L.22.22L.5.9.91.911)
  - A387(GrA,B,C,D,E,F,G)
- ASTM A414/A414M Standard Specification for Steel, Sheet, Carbon, for Pressure Vessels
  - A414(GrA,B,C,D,E,F,G)
- ASTM A455/A455M Standard Specification for Pressure Vessel Plates, Carbon Steel, High-Strength Manganese
  - A455(Gr60.65.70)
  - A515(Gr60.65.70)
- ASTM A516/A516M Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate- and Lower-Temperature Service
  - A516(Gr55.60.65.70)
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<tr>
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<td>Flat products made of steels for</td>
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<td>pressure purposes-Part 3:</td>
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<td>Weldable fine grain</td>
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<td>steel-thermalized</td>
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<td>BS EN 10028-3:2003</td>
<td>Weldable fine grain</td>
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<tr>
<td>BS EN 10028-4:2003</td>
<td>Nickel alloy steels with</td>
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<td>specified low temperature</td>
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<td>properties</td>
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<td>BS EN 10028-5:2003</td>
<td>Flat products made of steels for</td>
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<td>pressure purposes-Part 5:</td>
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<td>Weldable fine grain</td>
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<td>steels, thermomechanically rolled</td>
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<td>BS EN 10028-6:2003</td>
<td>Flat products made of steels for</td>
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<td>pressure purposes-Part 6:</td>
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<td>Weldable fine grain</td>
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<tr>
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<td>steels, quenched and tempered</td>
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SA-515 Steel Plate Grades 55, 60, 65 and 70 as rolled and normalized Carbon Steel Plates for Intermediate Temperatures.

SA-516 Steel Plate Grades 55, 60, 65 and 70 as rolled and normalized Carbon Steel Plates for Moderate and Lower Temperatures. (Down to -50 deg. F)

SA-537 Steel Plate Class 1 and Class 2 Heat Treated (50k & 60k min. yield respectively) Carbon - Manganese - Silicon Steel Plates - Heat Treated.

SA-285 Steel Plate Grades A, B and C as rolled for tanks and pressure vessels Low and Intermediate Strength Carbon Steel Plates.

SA-387 Steel Plate, Grades 5, 9, 11, 12, 22 and 91 Class 1 and 2 for elevated temp + corrosion Chromium - Molybdenum Alloy Steel Plates.

Tel: +86-21-6090 0836/6090 0838       [http://www.klsteel.com]       Email: metalsintl@klsteel.com
SA-203 Steel Plate Grades A, B, D, E and F Nickel Alloy Steel Plates. For low temperatures (-150 deg F)
SA-204 Steel Plate Grades A, B and C - Medium to high temp. Carbon - Molybdenum Alloy Steel Plates.

**Abrasion Resistant Steel Plate**
AA-200 Steel Plate (AR200) 3/16 inch through 1-1/2 inch thick in 72 inch and 120 inch widths.
AA-400 Steel Plate (AR400) 3/16 inch through 2 inches thick in 72 inch, 96 inch and 120 inch widths.
AA-500 Steel Plate (AR500) 1/4 inch through 1-1/2 inches thick in 72 inch and 120 inch widths.
ASTM A-514 Structural Quality Steel Plate (90k-100k min-yield)
3/16 inch through 6 inches thick.
72 inch through 120 inch width.

**Marine and Offshore Construction Steel Plate**
API-2H Steel Plate (Grade 50, with Supplements) Also, API-2Y-60 Steel Plate
**Supplement 1** - Ultrasonically tested to SA-578 Level II.
**Supplement 3** - Physicals, tested per plate.
**Supplement 4** - Through Thickness Tensile Test (Z directional).
**Supplement 5** - .006 Max Sulphur, with Inclusion Shape Control.
**Supplement 12** - Notch Toughness using drop weight - 5/8 inch and thicker.

REFERENCE: API-2H Steel Plate Grade 50, also dual certified and triple certified to corresponding grades of ASTM A633 Steel Grade C, ASTM A131 Steel, ABS Steel Grades DH36/EH36, as well as to ASTM SA537 Class I, Normalized (modified) and Mil-S-22698.

3/8 inch through 4 inches thickness in 96 to 150 inch widths, and lengths up to 600" long
API-2MT1 Steel Plate As Rolled Steel Plate with Improved Toughness

ABS AMERICAN BUREAU OF SHIPPING SHIPBUILDING AND NAVAL STEEL PLATE
A-36/ABS Grade AH36, ABS Grade DH36 and ABS Grade EH36

HY80 and HY100 MILITARY AND NAVAL GRADE STEEL PLATE
Military (MILSPEC MIL-S-16216-K) Grade Steel Plate
3/16 inch through 4 inch thickness in up to 120 inch widths and 480 inch lengths.

**Constructional and Structural Steel Plate**
STM A656 Steel Plate Grade 80 Type 7
3/8 inch through 3/4 inch thickness in 96 inch widths and 360 inch lengths.

ASTM A514 Steel Plate (Quenched and Tempered)
3/16 inch through 6 inch thickness in up to 120 inch widths and 480 inch lengths.

ASTM A572 Steel Plate (Grades 50/60)
3/16 inch through 4 inch thickness in up to 120 inch widths and 480 inch lengths.

ASTM A588 Steel Plate (Grades A/B)
3/16 inch through 4 inch thickness in up to 120 inch widths and 480 inch lengths.

ASTM A633 Steel Plate
3/8 inch through 4 inch thickness in up to 151 inch widths and 600 inch lengths.

**High Strength Low Alloy Carbon Steel Plate**
ASTM A656 Grade 80 Type 7 Steel Plate
Structural Steel Plate with Improved Formability
Tel: +86-21-6090 0836/6090 0838  http://www.klsteel.com  Email: metalsintl@klsteel.com
3/8 inch through 3/4 inch thickness in 96 inch widths and 360 inch lengths.

ASTM A514 Structural Steel Plate
High Yield Strength, Quenched and Tempered Alloy Steel Plate
3/16 inch through 6 inch thickness in up to 120 inch widths and 480 inch lengths.

ASTM A572 Structural Steel Plate (Grades 50/60)
High-Strength Low-Alloy Columbium-Vanadium Steel Plate
3/16 inch through 4 inch thickness in up to 120 inch widths and 480 inch lengths.

ASTM A588 Structural Steel Plate (Grades A/B)
High-Strength Low-Alloy Steel Plate
3/16 inch through 4 inch thickness in up to 120 inch widths and 480 inch lengths.

ASTM A633 Structural Steel Plate
Normalized High-Strength Low-Alloy Steel Plate
3/8 inch through 4 inch thickness in up to 151 inch widths and 480 inch lengths.