



CARBON STEEL PIPES & TUBES



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The background of the entire page is a photograph of an industrial manufacturing facility. In the foreground, there are blue-painted metal structures and machinery. In the background, there are stacks of pipes and other industrial equipment. The lighting is bright, typical of a factory setting.

PRODUCT PORTFOLIO

At Tubos India, we take honor in our cutting edge manufacturing process and a dedicated expert team who bring years of experience. Our carbon steel pipes are arranged to meet and exceed industry standards, assuring outstanding strength, durability and performance over various applications.

We are devoted towards sustainability and environmental safe practices into every feature of our production. When you choose us, you are not just choosing quality, you are choosing a greener and more responsible approach to manufacturing.

Whether you need carbon steel pipe or customized pipe. We have solutions to your specific project, trust Tubos India for quality, reliability and efficiency. Get in touch to discuss your requirement.

What are Carbon Steel Pipes & Tubes?

Carbon steel pipes & tubes are a long-lasting material made from carbon steel, a steel composite with carbon and iron, it is divided into hot-rolled and cold rolled steel pipes. Due to its strength and potential to resist stress it is utilized in environmental conditions such as pressure or utmost weather.

Types of Carbon Steel Pipes & Tubes for Any Applications

It is an adaptable and extensively utilized material, which has variety of types and its individual properties, accordingly you should choose which type will be best for your application and some of its most common type are given below.

- **Low Carbon Steel** is even known as mild steel, it contains low amount of carbon i.e. up to 0.3%.
- **Medium-carbon steel** usually has a carbon element at the range of 0.3% - 0.6%. It is stronger and harder compared to low-carbon steels. Hence it is utilized where high strength and hardness are required.
- **High-carbon steel** contains a carbon element of 0.6% - 1.4%, which makes it strong and hard but it is even less ductile and hard to weld. It is usually used for cutting tools.
- **Ultra-high carbon steel** has carbon content of beyond 1.4%, it is exceptionally strong and hard but also fragile and tough to work. It is utilized in application which needs great hardness such as saw blades and drill bits.



SPECIFICATIONS

SPECIFICATION	: ASTM A53/ ASME SA53
GRADE	: A, B
PRODUCT	: Seamless & Welded Pipe for Mechanical & Pressure Purpose
DIMENSION	: ASME B36.10M
ENDS	: Plain End, Beveled, Threaded, Coupling

Specification	: ASTM A106/ ASME SA106
Grade	: A, B, C
Product	: Seamless Pipe for High Temperature Service
Dimension	: ASME B36.10M
Ends	: Plain End, Beveled, Threaded, Coupling

Specification	: ASTM A135
Grade	: A, B
Product	: Electric-Resistance-Welded Steel Pipe
Dimension	: ASME B36.10M
Ends	: Plain End, Beveled, Threaded, Coupling

Specification	: ASTM A179/ ASME SA179
Product	: Seamless Heat Exchanger Tube
General Requirement	: ASTM A450/A450M
Ends	: Plain End, Beveled, Threaded, Coupling

Specification	: ASTM A192/ ASME SA192
Product	: Seamless Boiler Tube for High Pressure Service
General Requirement	: ASTM A450/A450M
Ends	: Plain End, Beveled, Threaded, Coupling



Specification : ASTM A210/ ASME SA210
Grade : A1, C
Product : Seamless Boiler Tube
General Requirement : ASTM A450/A450M
Ends : Plain End, Beveled, Threaded, Coupling

Specification : ASTM A252
Grade : 2, 3
Product : Seamless & Welded Pipe For Piling Purpose
General Requirement : ASTM A450/A450M
Ends : Plain End, Beveled, Threaded, Coupling

Specification : ASTM A333/ ASME SA333
Grade : 1, 3, 6
Product : Seamless and Welded Low Temperature Service Pipe
General Requirement : ASTM A999/A999M
Ends : Plain End, Beveled, Threaded, Coupling

Specification : ASTM A334/ ASME SA334
Grade : 1, 6
Product : Seamless and Welded Low Temperature Service Tube
General Requirement : ASTM A1016/A1016M
Ends : Plain End, Beveled, Threaded, Coupling

Specification : ASTM A500/ ASME SA500
Grade : 2, 3
Product : Cold-Formed Welded and Seamless Structural Tubing
Ends : Plain End, Beveled, Threaded, Coupling



Specification : ASTM A556/ ASME SA556
Grade : A2, B2
Product : Seamless Cold-Drawn Feedwater Heater Tubes
General Requirement : ASTM A450/A450M
Ends : Plain End, Beveled, Threaded, Coupling

Specification : DIN 1629/ DIN 2391
Grade : St37.0, St44.0, St52.0, St52.3
Condition : Seamless Tubes For Boiler And Heat Exchanger
Ends : Plain End, Beveled, Threaded, Coupling

Specification : DIN 2440
Grade : St33.2
Condition : Seamless Threaded Steel Tube
Ends : Plain End, Beveled, Threaded, Coupling

Specification : DIN 2393
Grade : St28, USt28, RSt28, St34.2, US34.2, RSt34.2, St37.2, USt37.2, RSt37.2, St44.2, St52.3
Condition : Welded Precision Tube
Ends : Plain End, Beveled, Threaded, Coupling



Specification : BS 970
Grade : 360, 410, 440, 460, 490
Condition : Boiler And Superheater Tubes With Specified Elevated Temperature Properties
Ends : Plain End, Beveled, Threaded, Coupling

Specification : API 5L
Grade : A, B, X42, X46, X52, X56, X60, X65, X70, X80
Condition : Seamless & Welded Line Pipe
Dimension : ASME B36.10M, API 5L
Ends : Plain End, Beveled, Threaded, Coupling



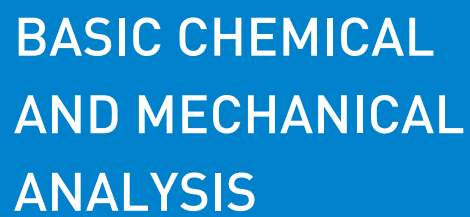
Specification : JIS G3444
Condition : Tubes for general structural and low-pressure application
Ends : Plain End, Beveled, Threaded, Coupling

Specification : JIS G3445
Grade : STKM11A, STKM12A, STKM12B, STKM12C, STKM13A, STKM13B, STKM13C, STKM14A, STKM14B, STKM14C
Condition : Seamless Tubes for machine structural purposes
Ends : Plain End, Beveled, Threaded, Coupling

Specification : JIS G3454
Grade : STPG370, STPG410
Condition : Seamless Pipe for Pressure Service
Ends : Plain End, Beveled, Threaded, Coupling

Specification : JIS G3466
Grade : STKR 400, STKR 490
Condition : Square and Rectangular Tubes for Structural Purpose
Ends : Plain End, Beveled, Threaded, Coupling





	ASTM A179		ASTM A192		ASTM A210		ASTM A252					
Chemical Composition (Max values %)	C	0.18	C	0.18	Gr A1	Gr C	Gr 2	Gr 3				
	Mn	0.63	Mn	0.63	C	0.27	C	0.27				
	P	0.035	P	0.035	Si	0.10	Si	0.10				
	S	0.035	S	0.035	Mn	0.93	Mn	1.06				
			Si	0.25	P	0.035	P	0.035				
				S	0.035	S	0.035					
Tensile Strength, min, ksi [Mpa]	47 [325]		47 [325]		60 [415]		70 [485]		60 [415]		66 [455]	
Yield Strength, min, ksi [Mpa]	26 [180]		26 [180]		37 [255]		40 [275]		35 [205]		45 [310]	
Elongation in 2 in. or 50 mm, min, %	35		35		30		30		25		20	

ASTM A333

Chemical Composition (Max values %)	Gr 1	Gr 3	Gr 4	Gr 6	Gr 7	Gr 8	Gr 9	Gr 10	Gr 11
C	0.30	C 0.19	C 0.12	C 0.30	C 0.19	C 0.13	C 0.20	C 0.20	C 0.10
Mn	1.06	Mn 0.64	Mn 1.05	Mn 1.06	Mn 0.90	Mn 0.90	Mn 1.06	Mn 1.50	Mn 0.60
P	0.025	P 0.025	P 0.025	P 0.025	P 0.025	P 0.025	P 0.025	P 0.035	P 0.025
S	0.025	S 0.025	S 0.025	S 0.025	S 0.025	S 0.025	S 0.025	S 0.015	S 0.025
		Si 0.37	Si 0.37	Si 0.10(min)	Si 0.32	Si 0.32	Ni 2.24	Si 0.35	Si 0.35
		Ni 3.82	Ni 0.98		Ni 2.57	Ni 9.60	Cu 1.25	Ni 0.25	Ni 37.0
			Cr 1.01					Cr 0.15	Cr 0.50
			Cu 0.75					Cu 0.15	Mo 0.50
			Al 0.30					Al 0.06	Co 0.50
								V 0.12	
								Nb 0.05	
								Mo 0.05	
Tensile Strength, min, ksi [MPa]	55 [380]	65 [450]	60 [415]	60 [415]	65 [450]	100 [690]	63 [435]	80 [550]	65 [450]
Yield Strength, min, ksi [MPa]	30 [205]	35 [240]	35 [240]	35 [240]	35 [240]	75 [515]	46 [315]	65 [450]	35 [240]
Elongation in 2 in. or 50 mm, min, %	35	30	30	30	30	22	28	22	18

ASTM A334

Chemical Composition (Max values %)	Gr 1	Gr 3	Gr 6	Gr 7	Gr 8	Gr 9	Gr 11
C	0.30	C 0.19	C 0.30	C 0.19	C 0.13	C 0.20	C 0.10
Mn	1.06	Mn 0.64	Mn 1.06	Mn 0.90	Mn 0.90	Mn 1.06	Mn 0.60
P	0.025	P 0.025	P 0.025	P 0.025	P 0.025	P 0.025	P 0.025
S	0.025	S 0.025	S 0.025	S 0.025	S 0.025	S 0.025	S 0.025
		Si 0.37	Si 0.10(min)	Si 0.32	Si 0.32	Ni 2.24	Si 0.35
		Ni 3.82		Ni 2.57	Ni 9.60	Cu 1.25	Ni 37.0
							Cr 0.50
							Co 0.50
							Mo 0.50
Tensile Strength, min, ksi [MPa]	55 [380]	65 [450]	60 [415]	65 [450]	100 [690]	63 [435]	65 [450]
Yield Strength, min, ksi [MPa]	30 [205]	35 [240]	35 [240]	35 [240]	75 [520]	46 [315]	35 [240]
Elongation in 2 in. or 50 mm, min, %	35	30	30	30	22	28	18



	ASTM A500				ASTM A556			DIN 17175	
Chemical Composition (Max values %)	Gr A		Gr B		Gr C		Gr D		
	C	0.26	C	0.30	C	0.23	C	0.27	
	Mn	1.35	Mn	1.40	Mn	1.35	Mn	1.40	
	P	0.035	P	0.045	P	0.035	P	0.045	
	S	0.035	S	0.045	S	0.035	S	0.045	
	Cu	0.20	Cu	0.18	Cu	0.20	Cu	0.18	
Tensile Strength, min, ksi [MPa]	45 [310]	58 [400]	62 [427]	58 [400]	47 [320]	60 [410]	70 [480]	52 [360]	59 [410]
Yield Strength, min, ksi [MPa]	33 [228]	42 [290]	46 [317]	36 [250]	26 [180]	37 [260]	40 [280]	34 [235]	37 [255]
Elongation in 2 in. or 50 mm, min, %	25	23	21	23	35	30	30	25	21

	DIN 1629/ DIN 2391				DIN 2393 Welded Precision Steel Tubes									
Chemical Composition (Max values %)	St37.0		St44.0		St52.0		St28		RSt34.2		RSt37.2		St44.2	
	C	0.17	C	0.21	C	0.22	C	0.13	C	0.15	C	0.17	C	0.21
	P	0.040	P	0.040	P	0.040	P	0.50	P	0.50	P	0.50	P	0.50
	S	0.040	S	0.040	S	0.035	S	0.50	S	0.50	S	0.50	S	0.50
					Si	0.55								
					Mn	1.70								
Tensile Strength, min, ksi [MPa]	50 [350]		60 [420]		73 [500]		[992]		49 [340]		64 [440]		81 [560]	
Yield Strength, min, ksi [MPa]	34 [235]		40 [275]		51 [355]		[393]		34 [235]		37 [255]		51 [355]	
Elongation in 2 in. or 50 mm, min, %	25		21		21		44		25		21		22	



	API 5L PSL 1 Seamless																	
Chemical Composition (Max values %)	A		B		X42		X46		X52		X56		X60		X65		X70	
	C	0.22	C	0.28	C	0.28	C	0.28	C	0.28	C	0.28	C	0.28	C	0.28	C	0.28
	Mn	0.90	Mn	1.20	Mn	1.30	Mn	1.40	Mn	1.40	Mn	1.40	Mn	1.40	Mn	1.40	Mn	1.40
	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030
	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030
Tensile Strength, min , ksi [MPa]	49 [335]		60 [415]		60 [415]		63 [435]		67 [460]		71 [490]		75 [520]		78 [535]		83 [570]	
Yield Strength, min, ksi [MPa]	31 [210]		36 [245]		42 [290]		46 [320]		52 [360]		57 [390]		60 [415]		65 [450]		70 [485]	
Elongation in 2 in. or 50 mm, min, %	-		-		-		-		-		-		-		-		-	

	API 5L PSL 1 Welded																	
Chemical Composition (Max values %)	A		B		X42		X46		X52		X56		X60		X65		X70	
	C	0.22	C	0.26	C	0.26	C	0.26	C	0.26	C	0.26	C	0.26	C	0.26	C	0.26
	Mn	0.90	Mn	1.20	Mn	1.30	Mn	1.40	Mn	1.40	Mn	1.40	Mn	1.40	Mn	1.45	Mn	1.65
	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030	P	0.030
	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030	S	0.030
Tensile Strength, min, ksi [MPa]	49 [335]		60 [415]		60 [415]		63 [435]		67 [460]		71 [490]		75 [520]		78 [535]		83 [570]	
Yield Strength, min, ksi [MPa]	31 [210]		36 [245]		42 [290]		46 [320]		52 [360]		57 [390]		60 [415]		65 [450]		70 [485]	
Elongation in 2 in. or 50 mm, min, %	-		-		-		-		-		-		-		-		-	



API 5L PSL 2 Seamless and Welded

Chemical Composition (Max values %)	BN		X42N		X46N		X52N		X56N		X60N	
	C	0.24	C	0.24	C	0.24	C	0.24	C	0.24	C	0.24
	Si	0.40	Si	0.40	Si	0.40	Si	0.45	Si	0.45	Si	0.45
	Mn	1.20	Mn	1.20	Mn	1.40	Mn	1.40	Mn	1.40	Mn	1.40
	P	0.025	P	0.025	P	0.025	P	0.025	P	0.025	P	0.025
	S	0.015	S	0.015	S	0.015	S	0.015	S	0.015	S	0.015
	Ti	0.04	V	0.06	V	0.07	V	0.10	V	0.10	V	0.10
			Nb	0.05	Nb	0.05	Nb	0.05	Nb	0.05	Nb	0.05
			Ti	0.04	Ti	0.04	Ti	0.04	Ti	0.04	Ti	0.04



API 5L PSL 2 Seamless & Welded

Chemical Composition (Max values %)	BM	X42M	X46M	X52M	X56M	X60M
	C 0.22	C 0.22	C 0.22	C 0.22	C 0.22	C 0.12
	Si 0.45	Si 0.45	Si 0.45	Si 0.45	Si 0.45	Si 0.45
	Mn 1.20	Mn 1.30	Mn 1.30	Mn 1.40	Mn 1.40	Mn 1.60
	P 0.025	P 0.025	P 0.025	P 0.025	P 0.025	P 0.025
	S 0.015	S 0.015	S 0.015	S 0.015	S 0.015	S 0.015
	V 0.05	V 0.05	V 0.05			
	Nb 0.05	Nb 0.05	Nb 0.05			
	Ti 0.04	Ti 0.04	Ti 0.04			
Tensile Strength, min, ksi [MPa]	60 [415]	60 [415]	63 [435]	67 [460]	71 [490]	75 [520]
Yield Strength, min, ksi [MPa]	36 [245]	42 [290]	46 [320]	52 [360]	57 [390]	60 [415]
Elongation in 2 in. or 50 mm, min, %	-	-	-	-	-	-

API 5L PSL 2 Seamless & Welded

Chemical Composition (Max values %)	X65M	X70M	X80M	X90M	X100M	X120M
	C 0.12	C 0.12	C 0.12	C 0.10	C 0.10	C 0.10
	Si 0.45	Si 0.45	Si 0.45	Si 0.55	Si 0.55	Si 0.55
	Mn 1.60	Mn 1.70	Mn 1.85	Mn 2.10	Mn 2.10	Mn 2.10
	P 0.025	P 0.025	P 0.025	P 0.020	P 0.020	P 0.020
	S 0.015	S 0.015	S 0.015	S 0.010	S 0.010	S 0.010
Tensile Strength, min, ksi [MPa]	78 [535]	83 [570]	90 [625]	101 [695]	110 [760]	133 [915]
Yield Strength, min, ksi [MPa]	65 [450]	70 [485]	81 [555]	91 [625]	100 [690]	120 [830]
Elongation in 2 in. or 50 mm, min, %	-	-	-	-	-	-



JIS G3444

Chemical Composition (Max values %)	STK290		STK400		SKT490		STK500		STK540	
	P	0.050	C	0.25	C	0.18	C	0.24	C	0.23
	S	0.050	P	0.040	Si	0.55	Si	0.35	Si	0.55
			S	0.040	Mn	1.65	Mn	1.30	Mn	1.50
					P	0.035	P	0.040	P	0.040
					S	0.035	S	0.040	S	0.040
Tensile Strength, min, ksi [MPa]	[290]		[400]		[490]		[500]		[540]	
Yield Strength, min, ksi [MPa]	-		[235]		[315]		[355]		[390]	
Elongation in 2 in. or 50 mm, min, %	35		23		23		15		20	

JIS G3445

Chemical Composition (Max values %)	STKM11A	STKM12A	STKM12B	STKM12C	STKM13A	STKM13B	STKM13C	STKM14A	STKM14B	STKM14C
	C	0.12	C	0.20	C	0.20	C	0.20	C	0.25
	Si	0.35	Si	0.35	Si	0.35	Si	0.35	Si	0.35
	Mn	0.60	Mn	0.60	Mn	0.60	Mn	0.60	Mn	0.90
	P	0.040	P	0.040	P	0.040	P	0.040	P	0.040
	S	0.040	S	0.040	S	0.040	S	0.040	S	0.040
Tensile Strength, min, ksi [MPa]	30 [290]	35 [340]	40 [390]	48 [470]	38 [370]	45 [440]	52 [510]	42 [410]	51 [500]	56 [550]
Yield Strength, min, ksi [MPa]	-	18 [175]	28 [275]	36 [355]	22 [215]	31 [305]	39 [380]	25 [245]	36 [355]	42 [410]
Elongation in 2 in. or 50 mm, min, %	35	35	25	20	30	20	15	25	15	15



	JIS G3454		JIS G3466	
Chemical Composition (Max values %)	STPG370		STPG410	
	C	0.25	C	0.30
	Si	0.35	Si	0.35
	Mn	0.90	Mn	1.00
	P	0.040	P	0.040
	S	0.040	S	0.040
Tensile Strength, min, ksi [MPa]	54 [373]		59 [412]	
Yield Strength, min, ksi [MPa]	31 [216]		36 [245]	
Elongation in 2 in. or 50 mm, min, %	30		23	
	STKR 400		STKR 490	
	C	0.25	C	0.18
	P	0.040	Si	0.55
	S	0.040	Mn	1.50
			P	0.040
			S	0.040





Diverse Applications of Carbon Steel Pipes & Tubes

It is known for its durability and the capability to resist stress and environmental situations. It is an absolute for structural use and it is generally utilize pipe in industries. It is extensively utilize for the following applications



**AUTOMOBILES
INDUSTRY**



CHEMICAL INDUSTRY



**CONSTRUCTIONS
INDUSTRY**



**DEFENSE
APPLICATIONS**



**FERTILIZERS
INDUSTRY**



**SHIP BUILDING
& REPAIRS**



**WATER AND
GAS INDUSTRY**

Our Additional Services Beyond Manufacturing Excellence

At Tubos India, our commitment to excellence expands over the manufacturing process. We know that our buyer often need beyond high quality carbon steel pipes. They require complete support and solutions. Thus we offer a range of added services to boost your experience.



»»» COMPLETE CONSULTATION

We initiate by listening to the project needs and offer excellent guidance. Our professional experienced team can guide you to select the right carbon steel pipe specifications, dimensions and coating to encounter your definite needs.

»»» CUSTOMIZATION EXPERTISE

Our latest manufacturing potential facilitates us to provide customize solutions. Even if you need unique pipe dimensions, coatings or threading, we can serve your customization requests.

»»» TESTING FACILITIES

Our carbon steel pipes testing involves various methods which guarantees quality, integrity and suitability for certain applications. Some common tests and inspection performed by us includes the following:

- Visual inspection
- Dimensional inspection
- Ultrasonic testing
- Magnetic particle testing
- Dye penetrant testing
- Radiographic testing
- Pressure testing
- Hardness testing
- Tensile testing
- Charpy impact testing
- Chemical Analysis
- Corrosion testing



Our in-house testing facilities gives assurance that our carbon steel pipes encounter the required performance standards.

»»» SUPPLY CHAIN MANAGEMENT

We understand the difficulties of supply chain management. Our committed team can assist in inventory management, on time deliveries, and good logistics planning to well organized your operation to reduce costs.

»»» FINISHING AND COATING OPTIONS

We provide a range of coating and finishing options including epoxy coating, galvanization, and fusion bonded epoxy, etc. These additional service helps to protect carbon steel pipe from corrosion and expand their longevity.

»»» PACKAGING AND LABELLING

We take good care of packaging carbon steel pipe to guarantee safe dispatch. Custom labeling options are available to assist you to track and identify the product easily.



»» DOCUMENTATION AND COMPLIANCE

We offer a thorough documentation consisting of material certificate, test certificates and adherence documentation to meet industry standards and official demand.

»» AFTER-SALES SUPPORT

Our commitment towards customer satisfaction doesn't end till product delivery. We offer never ending support, conveying any questions, concerns or issues to our customer.

»» PERMANENT SOLUTION

We give eco-friendly coating options which can help in selecting materials and designs that reduces the environmental impact.

