

SEAMLESS STEEL PIPES



Production Introduction

Provide the Ideal and Valued Steel Seamless Pipes for World-wide User



TECHNICAL PARAMETERS OF SEAMLESS STEEL PIPE

公司常备材质：20#、Q345。技术标准：API 5L B、ASTM A106 GR.B，ASTM A53 GR.B，高压锅炉管GB5310-1995，化肥专用管GB6479-2000，石油裂化管GB9948-2000，低中压锅炉管GB3087-1999，流体管GB/T8163-1999，结构管GB/T8162-1999，液压支架管GB/T17396-1998。

>> A53 化学成份、机械性能 A53 Chemical components and mechanical property

标准 Stan- dard	牌号 Trade mark	化学成份 Chemical components										机械性能 Mechanical property		
		C	Si	Mn	P	S	Cu	Ni	Mo	Cr	V	抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
ASTM A53	A	≤0.25	/	≤0.95	≤0.05	≤0.06	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08	≥330	≥205	≥29.5
	B	≤0.30	/	≤1.2	≤0.05	≤0.06	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08	≥415	≥240	≥29.5

>> A106 化学成份、机械性能 A106 Chemical components and mechanical property

标准 Stan- dard	牌号 Trade mark	化学成份 Chemical components									机械性能 Mechanical property		
		C	Si	Mn	P、S	Cu	Ni	Mo	Cr	V	抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
ASTM A106	B	≤0.30	≥0.10	0.29~ 1.06	≤0.035	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08	≥415	≥240	≥30
	C	≤0.35	≥0.10	0.29~ 1.06	≤0.035	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08	≥485	≥275	≥30

>> A179 化学成份、机械性能 A179 Chemical components and mechanical property

标准 Stan- dard	牌号 Trade mark	化学成份 Chemical components									机械性能 Mechanical property		
		C	Si	Mn	P、S	Cu	Ni	Mo	Cr	V	抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
ASTM A179	A179	0.06~ 0.18	/	0.27~ 0.63	≤0.035	/	/	/	/	/	≥325	≥180	35

>> A192 化学成份、机械性能 A192 Chemical components and mechanical property

标准 Stan- dard	牌号 Trade mark	化学成份 Chemical components								机械性能 Mechanical property		
		C	Si	Mn	P、S	Cu	Ni	Mo		抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
ASTM A192	A192	0.06~ 0.18	≤0.25	0.27~ 0.63	≤0.035	/	/	/		≥325	≥180	≥35





TECHNICAL PARAMETERS OF SEAMLESS STEEL PIPE

The common materials: 20# and Q345. Technical Standard: API 5L B, ASTM A106 GR.B, ASTM A53 GR.B; High-pressure boiler pipe GB5310-1995, Special pipe for fertilizer making GB6479-2000, pipe for petroleum cracking GB9948-2000, low- and medium-pressure boiler pipe GB3087-1999, fluid pipe GB/T8163-1999, structural pipe GB/T8162-1999 and hydraulic support pipe GB/T17396-1998.

370 化学成份、机械性能

370 Chemical components and mechanical property

牌号 Trade mark	化学成份 Chemical components					机械性能 Mechanical property		
	C	Si	Mn	P	S	抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
STPG 370	≤0.25	≤0.35	0.30~0.90	≤0.040	≤0.040	≥370	≥216	30
STS 370	≤0.25	0.10~0.35	0.30~1.10	≤0.035	≤0.035	≥370	≥215	30
STPT 370	≤0.25	0.10~0.35	0.30~0.90	≤0.035	≤0.035	≥370	≥215	30

A213 化学成份、机械性能

A213 Chemical components and mechanical property

标准 Standard	牌号 Trade mark	化学成份 Chemical components									机械性能 Mechanical property		
		C	Si	Mn	P、S	Cu	Ni	Mo	Cr	V	抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
ASTM A213	A213T11	0.05~0.15	≤0.50	0.30~0.60	≤0.025	/	/	0.44~0.65	1.0~1.5	/	≥415	≥170	≥30
	A213T12	0.05~0.15	≤0.50	0.30~0.61	≤0.025	/	/	0.44~0.65	0.80~1.25	/	≥415	≥205	≥30
	A213T22	0.05~0.15	≤0.50	0.30~0.60	≤0.025	/	/	0.87~1.13	1.90~2.60	/	≥415	≥205	≥30

A210 化学成份、机械性能

A210 Chemical components and mechanical property

标准 Standard	牌号 Trade mark	化学成份 Chemical components									机械性能 Mechanical property		
		C	Si	Mn	P、S	Cu	Ni	Mo	Cr	V	抗拉强度 Tensile Strength (Mpa)	屈服强度 Yield Strength (Mpa)	伸长率 Elongation (%)
ASTM A210	A210A1	≤0.27	≥0.10	≤0.93	≤0.35	/	/	/	/	/	≥415	≥255	≥30
	A210C	≤0.35	≥0.10	0.29~1.06	≤0.35	/	/	/	/	/	≥485	≥275	≥30





TECHNICAL PARAMETERS OF SEAMLESS STEEL PIPE

API 5CT 化学成份、机械性能 API 5CT Chemical components and mechanical property

等级 Class	类别 Sort	化学成份 Chemical components													机械性能 Mechanical property					
		C		Mn		Mo		Cr		Ni	Cu	P	S	Si	屈服强度 Yield Strength (Mpa)		抗拉强度 Tensile Strength (Mpa)		硬度 Hardness	
		Min	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Min	Max	Min	HRC	HBW /HBC	
H40	/	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	276	552	414	/	/	
J55	/	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	379	552	517	/	/	
K55	/	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	379	552	655	/	/	
N80	1	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	552	758	689	/	/	
	0	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	552	758	689	/	/	
M65	/	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	448	586	586	22	235	
	1	/	0.43	/	1.90	/	/	/	/	0.25	0.35	0.030	0.030	0.45	552	655	655	23	241	
L80	9Cr	/	0.15	0.30	0.60	0.90	1.10	8.0	10.00	0.50	0.25	0.020	0.010	1.00	552	655	655	23	241	
	13Cr	0.15	0.22	0.25	1.00	/	/	12.0	14.00	0.50	0.25	0.020	0.010	1.00	552	655	655	23	241	
C90	1	/	0.35	/	1.00	0.25	0.75	/	1.20	0.99	/	0.020	0.010	/	621	724	689	25.4	255	
	2	/	0.50	/	1.90	/	NL	/	NL	0.99	/	0.030	0.010	/	621	724	689	25.4	255	
T95	1	/	0.35	/	1.20	0.25	0.85	0.40	1.50	0.99	/	0.020	0.010	/	655	758	724	25.4	255	
	2	/	0.50	/	1.90	/	/	/	/	0.99	/	0.030	0.010	/	655	758	724	25.4	255	
P110	/	/	/	/	/	/	/	/	/	/	/	0.030	0.030	/	758	965	862	/	/	

外径允许偏差及壁厚允许偏差 Tolerances of Outer Diameter and Wall Thickness

标准 Standard	外径允许偏差 (mm) Tolerances of outer diameter		壁厚 (mm) Wall thickness	
	外径 (mm) Outer diameter	外径允许偏差 (mm) Tolerances of outer diameter	外径 ≤ 130mm Outer diameter ≤ 130mm	外径 > 130mm Outer diameter > 130mm
GB/T8162-1999	> 50	+1%	S ≤ 4 4-20 S > 20	S ± 12.5% +15% -10% ± 12.5%
GB/T8163-1999	ALL	热轧钢管允许偏差 +1%, min +0.5mm Tolerances of hot-finished steel pipe	ALL	+15% -10%
ASTM A53	< 48.3 > 60.3	+0.4mm -0.79mm +1%	ALL	± 12.5%
ASTM A106	< 48.3 48.3-114.3 > 114.3	+0.4mm -0.79mm +0.79mm +1.59mm -0.79mm	ALL	± 12.5%
GB9948-1988	≤ 159 > 159	+1% +1.25%	S ≤ 20 S > 20	± 12.5% +10%





HONGKONG
HARDWARE INDUSTRY LIMITED

Application fields

