

Parameters of Steel Pipe

1. Allowable Dimension Deviation

Types of Steel Tubes	Outer Diameter		Wall Thickness	
	Tube Sizes (mm)	Tolerances (mm)	Tube Sizes (mm)	Tolerances (mm)
Cold-Rolled Tubes	>30-50	± 0.3	≤ 30	± 10%
	>50-219	± 0.8%		
Hot-Rolled Tubes	>219	± 1.0%	> 20	± 10%

2. Chemical Composition of Steel Tube for Chemical Fertilizer Equipment

Grade	Chemical Composition (%)										
	C	Si	Mn	Cr	Mo	V	W	Nb	Ni	P	S
10	0.07-0.14	0.17-0.37	0.35-0.65	-	-	-	-	-	-	≤ 0.030	≤ 0.030
20	0.17-0.24	0.17-0.37	0.35-0.65	-	-	-	-	-	-	≤ 0.030	≤ 0.030
16Mn	0.12-0.20	0.20-0.60	1.20-1.60	-	-	-	-	-	-	≤ 0.030	≤ 0.030
15MnV	0.12-0.18	0.20-0.60	1.20-1.60	-	-	0.04-0.12	-	-	-	≤ 0.030	≤ 0.030
10MoWVNb	0.07-0.13	0.50-0.80	0.50-0.80	-	0.60-0.90	0.30-0.50	0.50-0.90	0.06-0.12	-	≤ 0.030	≤ 0.030
12CrMo	0.08-0.15	0.17-0.37	0.40-0.70	0.40-0.70	0.40-0.55	-	-	-	-	≤ 0.030	≤ 0.030
15CrMo	0.12-0.18	0.17-0.37	0.40-0.70	0.80-1.10	0.40-0.55	-	-	-	-	≤ 0.030	≤ 0.030
1Cr5Mo	≤ 0.15	≤ 0.50	≤ 0.60	4.00-6.00	0.40-0.60	-	-	-	≤ 0.60	≤ 0.030	≤ 0.030
12Cr2Mo	0.08-0.15	≤ 0.50	0.40-0.70	2.0-2.50	0.90-1.20	-	-	-	-	≤ 0.030	≤ 0.030
12SiMoVNB	0.08-0.14	0.50-0.80	0.60-0.90	-	0.90-1.10	0.30-0.50	-	0.04-0.08	-	≤ 0.030	≤ 0.030

3. Mechanical Properties of Steel Pipe

Grade	Tensile Strength (Mpa)	Yield Point (Mpa)	Min. Elongation (%)
10	335-490	205	24
20	410-550	245	24
16Mn	490-670	320	21
15MnV	510-690	350	19
12CrMo	410-560	205	21

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