

JIS G3445 Japanese Standard (Mechanical Pipe)

Standard:

JIS G3445

Application:

It is applied to machinery, automobile, bicycle, furniture, appliance and other mechanical parts as carbon steel pipe.

Grades of Main Steel Pipe:

STKM11A, STKM12(A,B,C), STKM13(A,B,C), STKM14(A,B,C)

Chemical Composition

Standard	Steel Grade	Chemical Composition (%)				
		C	Si	Mn	P	S
JIS G3445	STKM11A	≤0.12	≤0.35	≤0.60	≤0.040	≤0.040
	STKM12A	≤0.20	≤0.35	≤0.60	≤0.040	≤0.040
	STKM12B					
	STKM12C					
	STKM13A	≤0.25	≤0.35	0.30-0.90	≤0.040	≤0.040
	STKM13B					
	STKM13C					
	STKM14A	≤0.30	≤0.35	0.30-1.00	≤0.040	≤0.040
	STKM14B					
	STKM14C					

Mechanical Properties

Standard	Steel Grade	Mechanical Properties		
		Tensile Strength (Mpa)	Yield Strength (Mpa)	Elongation (%)
JIS G3445	STKM11A	≥295	\	≥35
	STKM12A	≥345	≥175	≥35
	STKM12B	≥390	≥275	≥25
	STKM12C	≥470	≥355	≥20
	STKM13A	≥375	≥215	≥30
	STKM13B	≥440	≥305	≥20
	STKM13C	≥510	≥380	≥15
	STKM14A	≥410	≥245	≥25
	STKM14B	≥500	≥355	≥15

	STKM14C	≥ 550	≥ 410	≥ 15
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Remarks

HR: hot rolled	CW: cold worked	SR: stress relieved
A: annealed	N: normalized	HF