

Specifications(JIS)

	Standard	symbol	Manufacturing Method	Chemical Composition (%)									Mechanical Properties (Minimum)		Tolerances Dimensions							
				C	Si	Mn	P (Maximum)	S (Maximum)	Ni	Cr	Mo	Etc.	Tensile Strength (Kg/mm ²) (N/mm ²)	Yield Point (Kg/mm ²) (N/mm ²)	Outside diameter (mm)		Inside diameter (mm)		Thickness (mm)			
															Class		Class					
for structural purposes	JIS G3473 Carbon Steel Tubes for	STC370	S	0.25	0.35	0.30 ~ 0.90	0.040	0.040					370	215	cold drawn seamless	D < 50 ± 0.25 D ≥ 50 ± 0.5%	cold drawn seamless	50 <	-0.10	seamless ± 10% min. 0.3mm		
		STC440	E	0.25	0.35	0.30 ~ 0.90	0.040	0.040					440	305				50 ~ 80	-0.30			
		STC510A	S E	0.25	0.35	0.30 ~ 0.90	0.040	0.040					510	380				80 ~ 120	-0.10			
	Cylinder Barrels	STC510B	S E	0.18	0.55	1.50	0.040	0.040				Nb or V 0.15	510	380				120 ~ 160	-0.50		electric resistance welding	welded ± 8% min. 0.15mm
		STC540	S	0.25	0.55	1.60	0.040	0.040					540	390				160 ~ 180	-0.10			
		STC590A	S	0.25	0.35	0.30 ~ 0.90	0.040	0.040					590	490				180 ~ 200	-0.80			
		STC590B	S	0.25	0.55	1.50	0.040	0.040					590	490				180 ~ 200	-0.10			