

BS 1717-83 STEEL TUBES FOR CUCLE AND MOTOR CYCLE PURPOSES

1. SCOPE

Specification for steel tubes for cycle and motor cycle purposes, seamless and welded steel tubes intended for use in cycles and motor cycles defines chemical composition, mechanical properties, dimensions , tolerances and technical delivery condition for each tube specified.

Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)									
		C	Si	Mn	P	S	Ni	Cr	Mo	Others	
CFSC3	S, W	0.20Max	0.35Max	0.9Max	0.060Max	0.050Max	-	-	-	-	①
											④
CFSC4	S, W	0.25Max	0.35Max	0.6~1.0	0.05Max	0.050Max	-	-	-	-	①
											④
CFSC6	S, W	0.29Max	0.35Max	1.5Max	0.050Max	0.050Max	-	-	0.15~0.25	-	①
											-
ERWC1	E	0.13Max	-	0.60Max	0.050Max	0.050Max	-	-	-	-	-
											③
ERWC2	E	0.16Max	-	0.70Max	0.050Max	0.050Max	-	-	-	-	-
											③
ERWC3	E	0.20Max	0.35Max	0.90Max	0.050Max	0.050Max	-	-	-	-	-
											③
ERWC5	E	0.15Max	0.35Max	1.20Max	0.040Max	0.040Max	-	-	-	-	-
											④
CRWC1	E	0.13Max	-	0.60Max	0.050Max	0.050Max	-	-	-	-	①
											③
CRWC2	E	0.16Max	-	0.70Max	0.050Max	0.050Max	-	-	-	-	④
											①

											③
											④
CRWC3	E	0.20Max	0.35Max	0.90Max	0.050Max	0.050Max	-	-	-	-	①
											③
											④

① cold finish (hard) ② cold finish (soft) ③ Annealed ④ Normalized

Mechanical Properties

Grade	Tensile Test MPa or N/mm ²		Remarks (Similar to JIS)
	Min Yield point	Tensile Strength	
CFSC3	360	450Min	(STKM12C)
	205	360Min	
CFSC4	410	520Min	(STKM13C)
	235	410Min	
CFSC6	620	720Min	
	-	-	
ERWC1	195	305Min	(STKM11A)
	145	275Min	
	155	285Min	
ERWC2	255	340Min	(STKM12A)
	155	305Min	
	195	325Min	
ERWC3	305	400Min	
	195	345Min	
	215	360Min	
ERWC5	360	430Min	(STKM18A)
	265	360Min	
CRWC1	325	400Min	(STKM11A)
	145	275Min	

	155	285Min	
CRWC2	350	420Min	(STKM12C)
	155	305Min	
	195	325Min	
CRWC3	360	450Min	(STKM13C)
	195	345Min	
	215	360Min	

JIS Number and Corresponding Foreign Standards

[illegible]

	STKM13A	C	A312	MT1020	C	1717	ERWC3	C	2391	St45	C	A49-324	TU37b	C	2937	TS4	C	
			A513	MT1020	C				2393	St44-2	C	A49-330	TU37b	C	3304	R37	"	
									2394	St44-2	C	A49-343	TU38b	C	3305	"	"	
	STKM13B	C	A513	MT1020	C										3306	"	"	
	STKM13C	C				1717	CEWC3	C										
						"	CFSC4	C										
						6323	CFS4	C										
	STKM14A	C	A513	MT1020	C	6323	HFS4	C							2937	TS9	C	
															3304	R42	"	
	STKM14B	C				6323	HFS5	C							3305	R42	C	
	STKM14C	C													3306	"	"	
	STKM15A	C	A513	1030	C													
			A519	1030	C													
	STKM15C																	
	STKM16A	C	A519	1040	C							A49-311	TUXC35	C				
												A49-312	TUXC35	C				
	STKM16C	C																
	STKM17A	C	A519	1050	C	6323	HFS8	C										
	STKM17C	C				6323	CFS8	C										
	STKM18A	C	A519	1518	C	1717	ERWC5	C				A49-310	TU52b	C				
												A49-311	TU52b	C				
												A49-312	TU52b	C				
	STKM18B	C										A49-321	TU52b	C				
												A49-323	TU52b	C				
												A49-326	TU52b	C				
	STKM18C	C										A49-330	TU52b	C				
												A49-341	TS42a	C				

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