

NF A49-343-80 STEEL TUBES LONGITUDINALLY WELDED TUBES D 168.3mm Max FOR ENGINEERING USE**1. Chemical Composition**

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
TS37b	E	0.18Max	0.38Max	0.81Max	0.045Max	0.045Max	-	-	-	-
TS815M5	E	0.22Max	0.55Max	1.6Max	0.045Max	0.045Max	-	-	-	-
TS18 MDV5	E	0.22Max	0.30Max	1.5Max	0.045Max	0.045Max	-	-	0.3Max	V: 0.12Max

2. Mechanical Properties

Grade	Tensile Test MPa or N/mm ²		Remarks (Similar to JIS)
	Min Yield point	Tensile Strength	
TS37b	230	360Min	(STKM13)
TS815M5	340	510Min	(STKM13)
TS18 MDV5	470	610Min	-

JIS Number and Corresponding Foreign Standards

JIS			ASTM			BS			DIN			NF			ISO			Index Number
Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	
G3445	STKM11A	C	A512	MT1010	C	1717	ERWC1	C	2391	St30Si	C				3304	R28	C	C017
			A513	MT1010	C					St30A1	C				3305	"	C	
									2393	St28	C				3306	"	C	
										RSt28	C							
									2394	St28	C							
										USt28	C							
										RSt28	C							
	STKM12A	C	A512	MT1015	C	1717	ERWC2	C	2391	St37-2					3304	R33	C	

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