

NF A49-321-78 STEEL TUBES JACKS FOR HYDRAULIC TRANSMISSIONS COLD ROLLED

1. Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
TU37b	S	0.18Max	0.35Max	0.75Max	0.04Max	0.04Max	-	-	-	-
TU52b	S	0.20Max	0.50Max	1.5Max	0.04Max	0.04Max	-	-	-	-
TU52BT	S	0.20Max	0.50Max	1.5Max	0.04Max	0.04Max	-	-	-	-
TU18 MDV5	S	0.20Max	0.45Max	1.55Max	0.035Max	0.035Max	-	-	0.35Max	V 0.14Max
TU17 MV5	S	0.21Max	0.45Max	1.50Max	0.040Max	0.04Max	-	-	0.35Max	V 0.14Max

2. Mechanical Properties

Grade	Tensile Test MPa or N/mm ²		Remarks (Similar to JIS)
	Min Yield point	Tensile Strength	
TU37b	(Normalized)		Impact Test(C,J/cm ²) -20, 35
	240	360~480	
TU52b	(Normalized)		- (STKM18)
	350	510~630	
TU52BT	(Normalized)		-20, 50 -46, 35
	290	510~630	
TU18	(Normalized)		-20, 50
MDV5	410	510~630	
TU17	(Normalized)		-20, 50
MV5	480	590	

JIS Number and Corresponding Foreign Standards

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