

## NF A49-115-85 STEEL TUBES SEAMLESS PLAIN END TUBES FOR PIPE LINES AND GENERAL USE FERRITIC AND AUSTENITIC STAINLESS STEELS

### 1. Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
TUZ2CN18-10	S	0.030Max	1.00Max	2.00Max	0.040Max	0.030Max	9~12.00	17~20.0	-	-
TUZ6CN18-09	S	0.080Max	1.00Max	2.00Max	0.040Max	0.030Max	8~11.00	17~20.0	-	-
TUZ6CNT18-10	S	0.080Max	1.00Max	2.00Max	0.040Max	0.030Max	9~12.00	17~20.0	-	Ti: 5CMin 0.6Max
TUZ12CN24-12	S	0.150Max	1.00Max	2.00Max	0.040Max	0.030Max	10.5~13.00	23.0~25.0	-	-
TUZ12CN25-20	S	0.150Max	1.00Max	2.00Max	0.040Max	0.030Max	19.0~22.00	24.0~26.0	-	-
TUZ2CN17-12	S	0.030Max	1.00Max	2.00Max	0.040Max	0.030Max	10.5~13.00	16~18.0	2.00~2.40	-
TUZ6CND17-11	S	0.070Max	1.00Max	2.00Max	0.040Max	0.030Max	10.0~12.50	16~18.0	2.00~2.40	-
TUZ6CNDT17-12	S	0.080Max	1.00Max	2.00Max	0.040Max	0.030Max	10.5~13.00	16~18.0	2.00~2.40	Ti: 5CMin 0.6Max
TUZ12C13	S	0.15Max	1.00Max	1.00Max	0.040Max	0.030Max	0.45Max	11.5~13.5	-	-
TUZ10C17	S	0.12Max	0.75Max	1.00Max	0.040Max	0.030Max	0.45Max	16.0~18.0	-	-

### 2. Mechanical Properties

Grade	Tensile Test MPa or N/mm <sup>2</sup>		Remarks (Similar to JIS)
	Min Yield point	Tensile Strength	
TUZ2CN18-10	175	470~720	(SUS304LTP)
TUZ6CN18-09	200	490~740	(SUS304TP)
TUZ6CNT18-10	190	490~740	(SUS321TP)
TUZ12CN24-12	220	530~780	-
TUZ12CN25-20	220	530~780	(SUS310STP)
TUZ2CN17-12	175	470~720	-
TUZ6CND17-11	190	490~740	(SUS316TP)
TUZ6CNDT17-12	190	490~740	-
TUZ12C13	210	420~670	-
TUZ10C17	250	420~670	-