

NF A49-400-82 LONGITUDINALLY ELECTRIC RESISTANCE WELDED UNALLOYED STEEL TUBES D 17.2Min 406.4mm Max FOR THE TRANSPORT OF PRESSURIZED FLUIDS

1. Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
TSE220	E	0.15Max	0.22Max	0.70Max	0.030Max	0.030Max	-	-	-	Nb: 0.04Max
TSE250	E	0.15Max	0.30Max	1.00Max	0.030Max	0.025Max	-	-	-	Nb: 0.04Max
TSE290	E	0.16Max	0.30Max	1.20Max	0.030Max	0.025Max	-	-	-	Nb: 0.04Max
TSE320	E	0.16Max	0.35Max	1.25Max	0.030Max	0.025Max	-	-	-	Nb: 0.04Max
TSE360Nb	E	0.16Max	0.35Max	1.45Max	0.030Max	0.025Max	-	-	-	Nb: 0.01~0.05
TSE360B	E	0.16Max	0.35Max	1.45Max	0.030Max	0.025Max	-	-	-	V: 0.040~0.100
TSE415Nb	E	0.20Max	0.35Max	1.50Max	0.030Max	0.025Max	-	-	-	Nb: 0.015~0.055
TSE415V	E	0.20Max	0.35Max	1.50Max	0.03Max	0.025Max	-	-	-	V: 0.040~0.100

2. Mechanical Properties

Grade	Tensile Test MPa or N/mm ²	
	Min Yield point	Tensile Strength
TSE220	210	370~490
TSE250	240	410~530
TSE290	290	420~540
TSE320	320	440~560
TSE360Nb	360	480~620
TSE360B	360	480~620
TSE415Nb	410	530~680
TSE415V	410	530~680