

NF A49-253-82 STEEL TUBES LONGITUDINALLY FUSION WELDED NON ALLOY AND FERRITIC ALLOY STEEL TUBES FOR USE AT ELEVATED TEMPERATURES

1. Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
TS37CP	W	0.16Max	0.30Max	0.40Max	0.035Max	0.030Max	-	-	-	-
TS42CP	W	0.18Max	0.30Max	0.60Max	0.035Max	0.030Max	-	-	-	-
TS48CP	W	0.20Max	0.35Max	0.80~1.50	0.035Max	0.030Max	-	-	-	-
TS52CP	W	0.20Max	0.55Max	1.0~1.60	0.040Max	0.030Max	-	-	-	-
TS15D3	W	0.20Max	0.15~0.30	0.50~0.80	0.035Max	0.030Max	-	0.30Max	0.25~0.35	-
TS15CD2-05	W	0.18Max	0.15~0.30	0.50~0.80	0.030~0.035	0.030Max	-	0.40~0.60	0.40~0.60	-
TS10CD9-10	W	0.15Max	0.15~0.35	0.40~0.80	0.030Max	0.030Max	-	2.0~2.50	0.90~1.10	-
TSZ10CD5-05	W	0.15Max	0.15~0.50	0.30~0.60	0.030Max	0.030Max	-	4.0~6.00	0.45~0.65	-

2. Mechanical Properties

Grade	Tensile Test MPa or N/mm ²		
	Min Yield point		Tensile Strength
	t 30mmMax	t < 30mm	
TS37CP	225	205	360~480
TS42CP	245	225	410~520
TS48CP	235	265	470~590
TS52CP	335	315	510~630
TS15D3	265		430~550
TS15CD2-05	275		450~570
TS10CD9-10	310		t 20mmMax 540~660 t > 20mmMax 520~640
TSZ10CD5-05	390		590~730