

## NF A49-501-86 STEEL TUBES SEAMLESS OR WELDED HOT FINISHED STRUCTURAL HOLLOW SECTIONS

## 1. Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
TUTSE235-2	Sorw	0.20Max	-	-	0.050Max	0.045Max	-	-	-	-
TUTSE235-3	Sorw	0.20Max	-	-	0.045Max	0.050Max	-	-	-	-
TUTSE235-4	Sorw	0.20Max	-	-	0.040Max	0.045Max	-	-	-	-
TUTSE275-2	Sorw	0.22Max	-	-	0.050Max	0.040Max	-	-	-	-
TUTSE275-3	Sorw	0.22Max	-	-	0.045Max	0.050Max	-	-	-	-
TUTSE175-4	Sorw	0.22Max	-	-	0.040Max	0.050Max	-	-	-	-
TSE295-2	Sorw	0.24Max	-	-	0.040Max	0.040Max	-	-	-	-
TSE295-3	Sorw	0.22Max	-	-	0.040Max	0.040Max	-	-	-	-
TSE295-4	Sorw	0.22Max	-	-	0.040Max	0.040Max	-	-	-	-
TUTSE355-2	Sorw	0.24Max	-	-	0.040Max	0.040Max	-	-	-	-
TUTSE355-3	Sorw	0.24Max	-	-	0.040Max	0.040Max	-	-	-	-
TUTSE355-4	Sorw	0.24Max	-	-	0.040Max	0.040Max	-	-	-	-
TUTSE450-2	Sorw	0.25Max	-	-	0.040Max	0.040Max	-	-	-	-
TUTSE450-3	Sorw	0.25Max	-	-	0.040Max	0.040Max	-	-	-	-
TUTSE450-4	Sorw	0.25Max	-	-	0.040Max	0.040Max	-	-	-	-

## 2. Mechanical Properties

Grade	Tensile Test MPa or N/mm <sup>2</sup>	
	Min Yield point	Tensile Strength
TUTSE235-2	235	340~480
TUTSE235-3	235	340~480
TUTSE235-4	235	340~480
TUTSE275-2	275	410~550
TUTSE275-3	275	410~550

TUTSE175-4	275	410~550
TSE295-2	295	420~560
TSE295-3	295	420~560
TSE295-4	295	420~560
TUTSE355-2	355	490~640
TUTSE355-3	355	490~640
TUTSE355-4	355	490~640
TUTSE450-2	450	550~750
TUTSE450-3	450	550~750
TUTSE450-4	450	550~750