

This page is mainly introduced the **TSZ8C17 Datasheet**, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of **TSZ8C17**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel TSZ8C17

TSZ8C17 Standard Number:

ITEM	Standard Number	Descriptions
1	NF A 49-245	Steel tubes. Longitudinally pressure welded tubes from non alloy and ferritic alloy steels for heat exchangers in diameters from 15, 9 mm and 76, 1 mm inclusive. Dimensions. Technical delivery conditions
2	NF A 49-647	Steel tubes. Structural welded tubes, circular, square, rectangular or oval, in ferritic or austenitic stainless steels. Dimensions. Technical delivery conditions

TSZ8C17 Chemical composition(mass fraction)(wt.%)

Chemical	Min.(%)					Max.(%)				
C						0.080				
Si						0.75				
Mn						0.75				
P						0.040				
S						0.015				
Cr	16.00					17.50				
Mo										
Ni										
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta	
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other	

Steel tubes. Structural welded tubes, circular, square, rectangular or oval, in ferritic or austenitic

stainless steels. Dimensions. Technical delivery conditions

TSZ8C17 Physical Properties

Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	123-321	-
HRC	30	-

TSZ8C17 Mechanical Properties

Tensile strength	231-231	σ_b /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	235-268	-
HRC	30	-

TSZ8C17 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

TSZ8C17 Range of products				
Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	Φ8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID-WASHED

We can produce Specialsteel the specifications follows: