

This page is mainly introduced the A 249 TPXM-29 chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of A 249 TPXM-29, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Data Table for Grades Stainless Steels A 249 TPXM-29

A 249 TPXM-29 Standard Number:			
ITEM	Standard Number	Descriptions	
1	A 249/A 249M (2010)	Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes	

A 249 TPXM-29 C	A 249 TPXM-29 Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)		
С		0.08		
Si		1.00		
Mn	11.5	14.5		
Р		0.06		
S		0.03		
Cr	17.0	19.0		
Ni	2.25	3.75		
N	0.20	0.40		

A 249 TPXM-29 Physical Properties				
Tensile strength	115-234	σb/MPa		
Yield Strength	23	σ 0.2 ≥/MPa		
Elongation	65	δ5≥ (%)		
Ψ	-	ψ≥ (%)		
Akv	-	Akv≥/J		
HBS	123-321	-		
HRC	30	-		

## A 249 TPXM-29 Mechanical Properties



## A 249 TPXM-29 Chemical information, Mechanical properties Physical properties, Mechanical properties, Heat treatment, and

Micro structure

Tensile strength	231-231	σb/MPa
Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

A 249 TPXM-29 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
$\checkmark$	√	V	√	√

A 249 TPXM-29 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 Stainless Steels the specifications follows: