

This page is mainly introduced the SA-479 S20161 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-479 S20161, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel SA-479 S20161

SA-479 S20161 Standard Number:					
ITEM	Standard Number	Descriptions			
1	SA-479/SA-479M	Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels			

SA-479 S20161 Chemical composition(mass fraction)(wt.%)									
	Chemical			Min.(%)			Max.(%)		
	С						0.15		
Mn				4.00			6.00		
Si				3.00			4.00		
	Р						0.04		
	S						0.04		
Cr				15.00			18.00		
Ni				4.00			6.00		
Мо							0.50		
	Ν			0.08			0.20		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other



Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

## SA-479 S20161 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	-

SA-479 S20161 Mechanical Properties					
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	-			

SA-479 S20161 Heat Treatment Regime						
Annealing Quenching		Tempering Normalizing		Q & T		
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			



SA-479 S20161 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: