

This page is mainly introduced the S20200 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of S20200,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Datasheet for Steel Grades Specialsteel S20200

S20200 Standard Number:				
ITEM	Standard Number	Descriptions		
1	A 213/A 213M (2011)	Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat- Exchanger Tubes		
2	A 240/A 240M (2012)	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications		
3	A 249/A 249M (2010)	Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes		
4	A 276 (2010)	Stainless Steel Bars and Shapes		
5	A 314 (2008)	Stainless Steel Billets and Bars for Forging		
6	A 473 (2009)	Stainless Steel Forgings		
7	A 959 (2011)	Standard Guide for Specifying Harmonized Standard Grade Compositions for Wrought Stainless Steels		
8	SAE AMS-QQ-S-763B (1998)	Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings		
9	SAE J 405 (1998)	Chemical compositions of SAE wrought stainless steels		

S20200 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
	С					0.15			
Si							1.00		
	Mn			7.5	50		10.0		
	Р						0.06		
S				0.03					
	Cr	17.0 19.0							
	Ni			4.0	00		6.00		
N				0.25					
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other



Steel Grades S20200 Chemical information, Mechanical properties

Physical properties, Mechanical properties, Heat treatment, and Micro structure

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S20200 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	-			

S20200 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	-			

S20200 Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
V	√	V	V	V		

S20200 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-		



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				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: