

This page is mainly introduced the S10VCr1 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of S10VCr1, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## **Datasheet for Steel Grades Special Steel S10VCr1**

S10VCr1 Standard Number:					
ITEM	ITEM Standard Number Descriptions				

S10VCr1 Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%) Max.(%)									
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.10	Max 0.15	0.40-0.80	0.030	0.030	0.80-1.20	Max 0.2	5 0.40-0.60	0.15-0.30	
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

## S10VCr1

S10VCr1 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	-				

S10VCr1 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	-

S10VCr1 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
	$\checkmark$	$\checkmark$	$\checkmark$					

S10VCr1 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 Special Steel the specifications follows: