

This page is mainly introduced the 45SiCr16-11/X45SiC Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 45SiCr16-11/X45SiC, 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 45SiCr16-11/X45SiC

	45SiCr16-11/X45SiC Standard Number:					
ITEM	ITEM Standard Number Descriptions					

45SiCr16-11/X45SiC Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
0.40-0.50	3.50-4.50	Max 1.00	Max 0.045	Max 0.030	2.50-3.00				
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

## 45SiCr16-11/X45SiC

45SiCr16-11/X45SiC 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	-			

45SiCr16-11/X45SiC Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			

## $Steel\ Grades 45 SiCr 16\text{-}11/X 45 SiC\ \ Chemical\ information,} Mechanical\ properties$

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

Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

45SiCr16-11/X45SiC Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
√	√	√	√	√			

45SiCr16-11/X45SiC 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: