

This page is mainly introduced the SNCM415 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SNCM415, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Structure Steel SNCM415

SNCM415 Standard Number:						
ITI	ITEM Standard Number Descriptions					

SNCM415 Chemical composition(mass fraction)(wt.%)

	Chemical			Min.(%)			Max.(%)			
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Та
0.12-0.18	0.15-0.35	0.40-0.70	0.030	0.030	0.40-0.65	1.60-2.0	00	0.15-0.30		
W	N	Cu	Со	Pb	В	Nb		Al	Ti	Other
		0.30								

SNCM415

SNCM415 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	-			

SNCM415 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	-

SNCM415 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark				

	SNCM415 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	Ф8-1200mm*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 Structure Steel the specifications follows: