

This page is mainly introduced the S10MnlSiMo chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of S10MnlSiMo, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## **Data Table for Grades Special Alloy S10MnlSiMo**

S10MnlSiMo Standard Number:				
ITEM	Standard Number	Descriptions		

S10MnlSiMo Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)	

S10MnlSiMo 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	-		

S10MnlSiMo 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	-		

S10MnlSiMo Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
$\checkmark$	√	√	√	V

## S10MnlSiMo Chemical information, Mechanical properties

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

S10MnlSiMo 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 Alloy the specifications follows: