

This page is mainly introduced the 709M40 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 709M40, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel 709M40

	709M40 Standard Number:				
ITEM	ITEM Standard Number Descriptions				
1	BS 970-1 (1996) Specification for wrought steels for mechanical and allied engineering purposes General inspection and testing procedures and specific requirements for carbon carbon manganese, alloy and stainless steels				

709M40 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
	Si			0.1000			0.4000		
S							0.0400		
	Р						0.0350		
	Мо			0.2500			0.3500		
	Mn			0.7000			1.0000		
Cr				0.9000			1.2000		
	С			0.3600			0.4400		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Specification for wrought steels for mechanical and allied engineering purposes. General inspection and testing procedures and specific requirements for carbon, carbon manganese, alloy and stainless steels

709M40 Physical Properties					
Tensile strength	115-234	σb/MPa			
Yield Strength	23	σ 0.2 ≥/MPa			

Steel Grades 709 M40 Chemical information, Mechanical properties

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

Elongation	65	δ5≥ (%)
Ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

709M40 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	-			

709M40 Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
√	√	√	√	√			

709M40 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 Specialsteel the specifications follows: