

This page is mainly introduced the 040 A 10 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 040 A 10, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel 040 A 10

040 A 10 Standard Number:					
ITEM Standard Number Descriptions					
1	BS PD 970 (2005)	Wrought steels for mechanical and allied engineering purposes. Requirements for carbon, carbon manganese and alloy hot worked or cold finished steels.			

040 A 10 Chemical composition(mass fraction)(wt.%)										
	Chemical			Min.(%)				Max.(%)		
	C 0.0800				0.1300					
Mn				0.3000			0.5000			
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta	
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

040 A 10 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	-				



040 A 10 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	-				

040 A 10 Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
√	√	√	√	√		

040 A 10 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 Specialsteel the specifications follows: