

This page is mainly introduced the 1.4016 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1.4016, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel 1.4016

1.4016 Standard Number:					
ITEM	Standard Number	Descriptions			
1	BS EN 10088-1	Stainless steels - Part 1: List of stainless steels			
2	BS EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes			
3	BS EN 10088-3	Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes			
4	BS EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes			
5	BS EN 10088-5	Stainless steels - Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes			
6	BS EN 10151	Stainless steel strip for springs - Technical delivery conditions			
7	BS EN 10250-4	Open die steel forgings for general engineering purposes - Part 4: Stainless steels			
8	BS EN 10263-5	Steel rod, bars and steel wire for cold heading and cold extrusion - Part 5: Technical delivery conditions for stainless steels			
9	BS EN 10296-2 (2005)	Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel			
10	BS EN 10297-2 (2005)	Seamless circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel			

1.4016 Chemical composition(mass fraction)(wt.%)					
Chemical	Min.(%)	Max.(%)			
С		0.08			
Si		1.00			
Mn		1.00			
Р		0.04			
S		0.015			
Cr	16.00	18.00			
Ni					
Мо					



Steel Grades 1.4016 Chemical information, Mechanical properties

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

	N								
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Seamless circular steel tubes for mechanical and general engineering purposes - Technical

delivery conditions - Part 2: Stainless steel

1.4016 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	-			

1.4016 Mechanical Properties				
Tensile strength	231-231	σb/MPa		
Yield Strength	154	σ 0.2 ≥/MPa		
Elongation	56	δ5≥(%)		
Ψ	-	ψ≥(%)		
Akv	-	Akv≥/J		



Steel Grades 1.4016 Chemical information, Mechanical properties

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HBS	235-268	-
HRC	30	-

1.4016 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
√	√	√	V	√				

1.4016 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: