

This page is mainly introduced the 1.4021 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1.4021,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Datasheet for Steel Grades Specialsteel 1.4021

	1.4021 Standard Number:					
ITEM	Standard Number	Descriptions				
2	DIN 17440 (1996)	Stainless steels - Technical delivery conditions for drawn wire				
3	DIN 17441 (1985)	Stainless steels - Technical delivery conditions for cold rolled strips and slit coils strip and sheets cut from such strips for pressure purposes				
4	DIN 17442 (1977)	Rolled, Wrought or Cast Stainless Steel Products for Medical Instruments				
5	DIN 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				
6	DIN EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes				
7	DIN 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				
9	DIN EN 10088-1	Stainless steels - Part 1: List of stainless steels				
8	DIN EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes				
9	DIN EN 10250-4	Open die steel forgings for general engineering purposes - Part 4: Stainless steels				
10	DIN 17224	Materials for rail vehicles - Steels - Part 3: Stainless steel flat products; Selected standard				
11	DIN EN 10151	Stainless steel strip for springs - Technical delivery conditions				

1.4021 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
	С						0.08		
	Si						1.00		
	Mn							1.00	
	Р			0.040			0.040		
	S				0.015			0.015	
Cr			16.0			18.0			
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та



Steel Grades 1.4021 Chemical information, Mechanical properties

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

W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Stainless steels - Technical delivery conditions for cold rolled strips and slit coils strip and sheets cut from such strips for pressure purposes

1.4021 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	-				

1.4021 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	-			

	1.4021 Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T						
V	√ √ √ √ √						

	1.4021 Range of products					
Product type	Products	Dimension	Processes	Deliver Status		
Plates / Sheets Plates / Sheets 0.08-200mm(T)*W*L Forging, hot rolling and Annealed, Solution and						



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			cold rolling	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: