

This page is mainly introduced the X2CrNiMoN22-5-3 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNiMoN22-5-3, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel X2CrNiMoN22-5-3

	X2CrNiMoN22-5-3 Standard Number:					
ITEM	Standard Number	Descriptions				
1	BS EN 10028-7	Flat products made of steels for pressure purposes - Part 7: Stainless steels				
2	BS EN 10088-1	Stainless steels - Part 1: List of stainless steels				
3	BS EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes				
4	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				
5	BS EN 10088-4	Stainless steels - Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes				
6	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				
7	BS EN 10216-5 (2004)	Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 5: Stainless steel tubes				
8	BS EN 10217-7	Welded steel tubes for pressure purposes - Technical delivery conditions - Part 7: Stainless steel tubes				
9	BS EN 10222-5	Steel forgings for pressure purposes - Part 5: Martensitic, austenitic and austenitic- ferritic stainless steels				
10	BS EN 10250-4	Open die steel forgings for general engineering purposes - Part 4: Stainless steels				
11	BS EN 10253-3	Butt-welding pipe fittings - Part 3: Wrought austenitic and austenitic-ferritic (duplex) stainless steels without specific inspection requirements				
12	BS EN 10253-4	Butt-welding pipe fittings - Part 4: Wrought austenitic and austenitic-ferritic (duplex) stainless steels with specific inspection requirements				
13	BS EN 10263-5	Steel rod, bars and steel wire for cold heading and cold extrusion - Part 5: Technical delivery conditions for stainless steels				
14	BS EN 10272	Stainless steel bars for pressure purposes				
15	BS EN 10296-2 (2005)	Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel				
16	BS EN 10297-2 (2005)	Seamless circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel				



X2CrNiMoN22-5-3 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С							0.03		
	Si						1.00		
	Mn							2.00	
	Р						0.035		
	S						0.015		
	Cr			21.00			23.00		
	Ni			4.50			6.50		
	Мо			2.50			3.50		
N				0.10			0.22		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

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

delivery conditions - Part 2: Stainless steel

X2CrNiMoN22-5-3 Physical Properties					
Tensile strength 115-234 σb/MPa					
Yield Strength	23 65	σ 0.2 ≥/MPa δ5≥ (%)			
Elongation					
Ψ	-	ψ≥ (%)			
Akv	-	Akv≥/J			

Steel GradesX2CrNiMoN22-5-3 Chemical information, Mechanical properties

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

HBS	123-321	-
HRC	30	-

X2CrNiMoN22-5-3 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	-			

X2CrNiMoN22-5-3 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
√	√	√	V	√				

X2CrNiMoN22-5-3 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: