

STAINLESS STEEL Austenitic Grade_Spring Strip

DEK Reference ID:									
DSM 1.0.1_1/4 Hard / DSM 1.0.1_1/2 Hard / DSM 1.0.1_3/4 Hard									
Material Name EN:									
1.4310									
Steel Group:									
Alloy special steels: Stainless steels with >= 2,5 % Ni, without Mo, Nb and Ti									
Characteristics:									
Machinable, resistance to fresh water, formable, suitable for cold forming, strain hardened, resistant to corrosion, suitable for polishing, weldable, suitable for cold upsetting, suitable for cold extrusion, suitable for chamfering, austenitic, corrosions resistance to rural atmosphere, corrosions resistance to urban atmosphere, resistant to atmospheric corrosion.									
Chemical Composition (subset C, Si, Mn, Cr, Ni):									
C (%) - Min	C (%) - Max	Si (%) - Min	Si(%) - Max	Mn (%) - Min	Mn(%) - Max	Cr (%) -Min	Cr (%) - Max	Ni (%) - Min	Ni(%) - Max
0.05	0.15	0	2	0	2	16	19	6	9.5
Properties: ¼ Hard:									
Density (g/cm3)	Young's modulus (GPA)	Yield Stress YS Min MPa	Yield Stress YS Max MPa	Tensile Strength TS Min MPA	Tensile Strength TS Max MPA	Elongation A (%)			
7.92	194	195	-	500	750	25			
Temper Types:		Preferred Temper Types are in:							
¼ Hard	Hardened by cold rolling.								
Note:	The temper condition must appear on the drawing:- DSM 1.0.1_1/4 Hard								
Properties: ½ Hard:									
Density (g/cm3)	Young's modulus (GPA)	Yield Stress YS Min MPa	Yield Stress YS Max MPa	Tensile Strength TS Min MPA	Tensile Strength TS Max MPA	Elongation A			
7.92	194	195	-	1000	1150	20			
Temper Types:		Preferred Temper Types are in:							
½ Hard	Hardened by cold rolling.								
Note:	The temper condition must appear on the drawing:- DSM 1.0.1_1/2 Hard								
Properties: ¾ Hard:									
Density (g/cm3)	Young's modulus (GPA)	Yield Stress YS Min MPa	Yield Stress YS Max MPa	Tensile Strength TS Min MPA	Tensile Strength TS Max MPA	Elongation A			
7.92	194	195	-	1150	1300	15			
Temper Types:		Preferred Temper Types are in:							
¾ Hard	Hardened by cold rolling.								
Note:	The temper condition must appear on the drawing:- DSM 1.0.1 3/4 Hard								

Issue	01	02	03	04	05	06	07	08	09
Date	7158	30040	44682	44841	24/06/21				

Material Safety Data Sheet:

Material Safety
Data Sheet For 1.43

Approved Standards:

Material Number	Country	Steel Name	Product	Standard's Name	Edition
1.4310	EU	X10CrNi18-8	strip for springs	DIN EN 4528	2015
1.4310	EU	X10CrNi18-8	stainless steel, list	DIN EN 10088-1	2014
1.4310	EU	X10CrNi18-8	strip and sheet / plate	DIN EN 10088-2	2014
1.4310	EU	X10CrNi18-8	strip for springs	DIN EN 10151	2003
1.4310	ISO	X10CrNi18 9E	Cold heading steel	ISO 4954	2018
1.4310	ISO	X10CrNi18-8	strip for springs	ISO 6931-2	2005
1.4310	ISO	X10CrNi18-8	steel, stainless	ISO 15510	2014
1.4310	ISO	X12CrNi17-7	steel, stainless	ISO 15510	2014
1.4310	ISO	X10CrNi18-8	flat product, stainless	ISO 16143-1	2014
1.4310	ISO	X12CrNi17-7	flat product, stainless	ISO 16143-1	2014
1.4310	CN	1Cr17Ni7	strip, hot rolled, stainless	YB/T 110	2011
1.4310	CN	12Cr17Ni7	sheet and strip, cold rolled, stainless	GB/T 3280	2015
1.4310	CN	12Cr17Ni7	sheet and strip, hot rolled, stainless	GB/T 4237	2015
1.4310	CN	12Cr17Ni7	sheet and strip, hot rolled, stainless	GB/T 4237	2015
1.4310	CN	1Cr17Ni7	sheet and strip, cold rolled, stainless	GB/T 3280	2015
1.4310	CN	1Cr17Ni8	sheet and strip, cold rolled, stainless	GB/T 3280	2015
1.4310	CN	12Cr17Ni7	steel, stainless and heat resisting	GB/T 20878	2007
1.4310	JP	SUS301	sheet / plate and strip, hot rolled, stainless	JIS G 4304	2012
1.4310	JP	SUS301	sheet/plate and strip, cold rolled, stainless	JIS G 4305	2012
1.4310	JP	SUS301-CSP	strip, strip for springs, cold rolled	JIS G 4313	2020
1.4310	US	Type 301	plate / sheet and strip, stainless	ASTM A240/M	2020
1.4310	US	Type 301	plate / sheet, strip, flat bar, stainless	ASTM A666	2015
1.4310	US	Type 301	chromium steel, austenitic	ASTM A959	2019
1.4310	US	Type 301	steel, stainless, austenitic	ASTM F 899	2020
1.4310	US	AISI 301	wrought steel, stainless	SAE J 405	2018

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