

This technical specification aims to define the chemical/mechanical properties and standards for cold rolled grade 301 stainless steel strips.

Grade 301 Stainless Steel Strips Technical Specifications

1. 301 Stainless Steel Strips Chemical Composition

Grade	Spec.	Range	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Ti	%N
301	ASTM A240	Min.						16.00	6.00	-	-	-
		Max.	0.15	1.00	2.00	0.045	0.030	18.00	8.00	-	-	0.10

Stainless Steel Grade Comparison

STS	USA	UNS	CHINA	EURONORM		RUSSIA	SWEDISH	JAPANESE
GRADE	AISI/ASTM	NO	GB	NO	NAME	GOST	SS	JIS
301	301	S30100	12Cr17Ni7	1.4310	X12CrNi177	-	2331	SUS 301

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2. 301 Stainless Steel Strips Mechanical Properties

Grade	EN Grade	Yield Strength EN	Yield Strength Rp0.2 (N/mm ²)	Tensile Strength EN	Tensile Strength Rm (N/mm ²)	Hardness (HV)	Elongation A80 % Min.
301	1.4310	CP350	350-500	C700	700-850	219-265	35
		CP500	500-700	C850	850-1000	265-311	25
		CP700	700-900	C1000	1000-1150	311-358	20
		CP900	900-1100	C1150	1150-1300	358-403	15
		CP1100	1100-1300	C1300	1300-1500	403-464	10
		CP1300	1300-1500	C1500	1500-1700	464-520	5
		CP1500	1500-1700	C1700	1700-1900	520-575	2
		CP1700	1700-1900	C1900	1900-2200	575-655	1

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3. 301 Stainless Steel Strips Shipping Mark

- Below information must be mentioned on each 301 stainless steel strips marking (shipping mark)

Supplier:		Customer:	
Alloy/Steel Grade:		Edge:	
Surface Finish:		Package No.:	
Materials Heat No.:		Net Weight:	
Size:		Gross Weight:	
Coil Quantity:		Date:	

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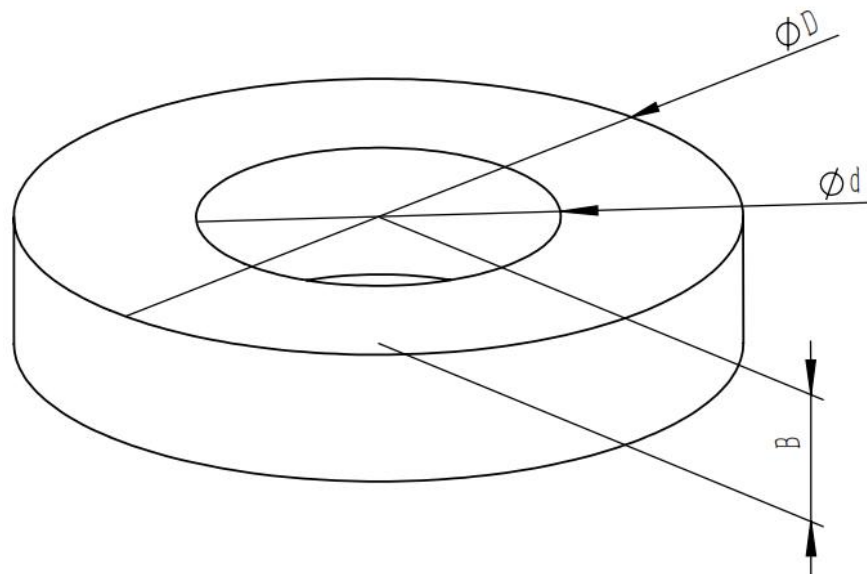
4. 301 Stainless Steel Strips Standard Packaging

- 1) Cardboard/inner core inner diameter: 300/400/500mm.
- 2) Each coil net weights to be within 500 kg. Max gross weight of each wooden pallet 1200 Kg.
- 3) Overall diameter of each coil should not exceed 1100mm.
- 4) All coils to have no splices or joints.
- 5) Material to be consistent throughout each coil, especially width, thickness and formability.
- 6) Wooden pallet with coils packed eye to sky with 40mm spacers between coils and an identification label with information relating to material.
- 7) To be supplied on pallets with a minimum leg height of 100mm.
- 8) Coils must be stored and transported in a dry environment to minimise condensation.

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COIL B (Width)	OD		ID
	ØD MAX	ØD MIN	Ød
000-500mm	1100mm	600mm	300mm/400mm/500mm



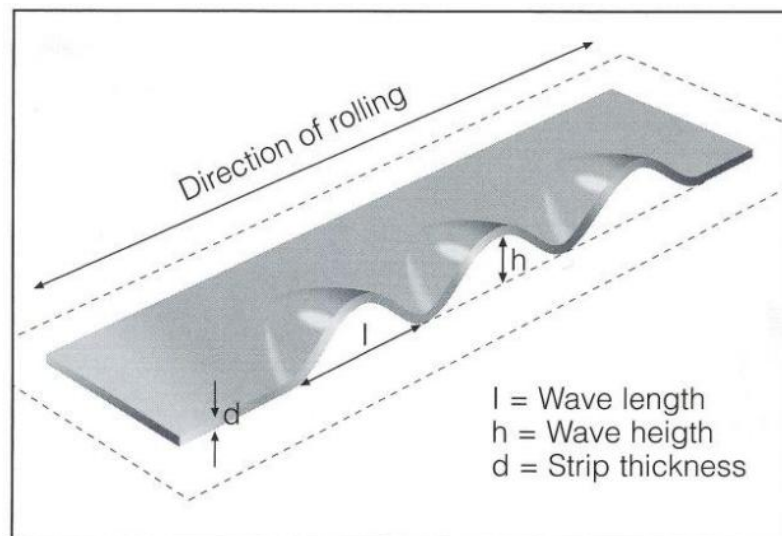
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5. 301 Stainless Steel Strips Flatness Tolerance

301 stainless steel strips flatness and edge waviness tolerances must be as customer's requested.

Thickness	HZW Standard		EN 1.4310	
	h/l	h/l in %	h/l	h/l in %
≤1mm	≤0.015	≤1.5	≤0.03	≤3.0
>1mm	≤0.015	≤1.5	≤0.02	≤2.0

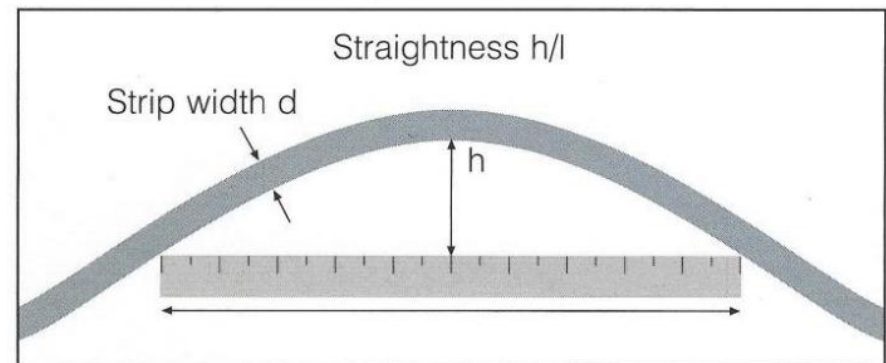


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6. 301 Stainless Steel Strips Straightness Tolerance

301 stainless steel strips straightness tolerance tolerances must be as customer's requested.

Width/mm		EN 1.4310 standard Straightness tolerance in mm			
≥	<	Normal		HZW Standard	
		Measured length		Measured length	
		1000mm	2000mm	1000mm	2000mm
3	10	≤ 5	≤ 20	≤ 2.5	≤ 10
10	25	≤ 4	≤ 16	≤ 1.5	≤ 6
25	40	≤ 3	≤ 12	≤ 1.25	≤ 5
40	125	≤ 2	≤ 8	≤ 1.0	≤ 4
125	400	≤ 1.5	≤ 6	≤ 0.75	≤ 3



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7. 301 Stainless Steel Strips Thickness Tolerance

Width	JIS4305 (ET)				ASTM A240				GB/T 4239			
Thickness	<160	≥160	≥250	≥400	>5	>25	>76	>150	>20	>150	>250	>400
		< 250	< 400	< 600	≤25	≤76	≤150	≤300	≤150	≤250	≤400	≤600
<0.10	±0.01	±0.020	-	-	±10%	±10%	0.1	±10%	±0.010	±0.010	0.01	-
≥0.10-0.16	±0.015	±0.020	-	-	±10%	±10%	0.1	±10%	±0.010	±0.010	0.01	-
≥0.16-0.25	±0.020	±0.025	±0.030	±0.030	±0.04	±0.04	0.04	±0.40	±0.010	±0.010	0.01	-
≥0.25-0.40	±0.025	±0.030	±0.035	±0.035	±0.05	±0.05	0.05	±0.06	±0.020	±0.020	±0.020	±0.020
≥0.40-0.60	±0.035	±0.040	±0.040	±0.040	±0.06	±0.06	0.06	±0.06	±0.020	0.02	±0.020	±0.030
≥0.60-0.80	±0.040td	±0.045	±0.045	±0.045	±0.06	±0.06	±0.06	±0.09	0.03	0.03	±0.030	±0.040

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8. 301 Stainless Steel Strips Width Tolerance

301 Stainless Steel Strips Width Tolerance Range

Thickness	JIS4305 (EW)		ASTM A240		GB/T 4239	
	< 0.60	≥0.60-1.00	< 0.38	≥0.38-1.00	< 0.50	≥0.50-1.00
< 10	-	-	-	-	-	-
≥10-80	±0.15	±0.20	±0.127	±0.127	±0.15	±0.20
≥80-160	±0.15	±0.20	±0.127	±0.127	±0.20	±0.010
≥160-280	±0.20	±0.25	±0.254	±0.254	±0.20	±0.25
≥260-400	±0.25	±0.25	±0.254	±0.254	±0.25	±0.30
≥400-600	±0.30	±0.30	±0.406	±0.406	±0.30	±0.30

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