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This technical specification aims to define the chemical/mechanical properties and standards for cold rolled grade 904L stainless steel strips.

Grade 904L Stainless Steel Strips Technical Specifications

1. 904L Stainless Steel Strips Chemical Composition

	Grade	Spec.	Range	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Ti	%N
	0041	904L ASTM A240	Min.						19.00	23.00	4.00	-	-
	904L		Max.	0.02	0.70	2.00	0.030	0.30	23.00	28.00	5.00	-	0.10

Stainless Steel Grade Comparison

5	STS	USA	UNS	CHINA	EURONORM		RUSSIA	SWEDISH	JAPANESE
GF	RADE	AISI/ASTM	NO	GB	NO	NAME	GOST	SS	JIS
9	004L	904L	N08904	1	1.4539	X1NiCrMoCuN 25-20-5	1	2562	-



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2. 904L Stainless Steel Strips Mechanical Properties

Grade	EN Grade	Yield Strength Rp0.2 (N/mm²)	Tensile Strength Rm (N/mm²)	Hardness	Vickers Hardness (HV)	Elongation A80 % Min.
	1.4539	≥205	≥520	ANN	≥160	≥40
		≥450	≥700	1/4 Hard	220-250	≥20
904L		≥700	≥850	1/2 Hard	250-310	≥8
		≥880	≥1000	3/4 Hard	310-370	≥ 4
		≥1020	≥1150	Full Hard	≥370	≥1



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- 3. 904L Stainless Steel Strips Shipping Mark
- Below information must be mentioned on each 904L 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. 904L Stainless Steel Strips Standard Packaging

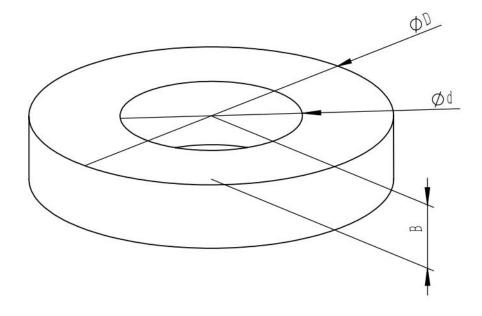
- 1) Cardboard/inner core inner diameter: 300/400/500mm.
- 2) Each coil net weights to be within 500 kg. Max gross weight of each wooden pallet 1200 Kg.
- 3) Overall diameter of each coil should not exceed 1100mm.
- 4) All coils to have no splices or joints.
- 5) Material to be consistent throughout 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 (Midth)	OD		ID		
COIL B (Width)	ØD MAX	ØD MIN	Ød		
000-500mm	1100mm	600mm	200mm/300mm/400mm/500mm		





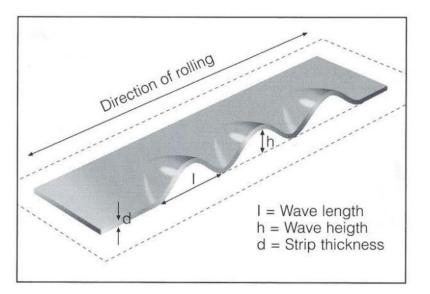
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5. 904L Stainless Steel Strips Flatness Tolerance

904L stainless steel strips flatness and edge waviness tolerances must be as customer's requested.

Thickness	HZW S	tandard	EN		
			1.4	539	
	h/I	h/l in %	h/I	h/l in %	
≤1mm	≤0.015	≤1.5	≤0.03	≤3.0	
>1mm	≤0.015	≤1.5	≤0.02	≤2.0	





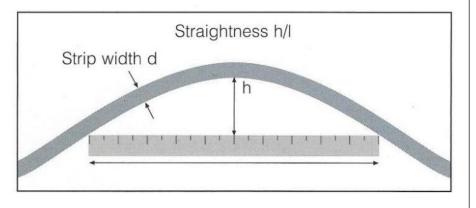
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6. 904L Stainless Steel Strips Straightness Tolerance

904L stainless steel strips straightness tolerance tolerances must be as customer's requested.

Width/mm		EN 1.4539 standard Straightness tolerance in mm						
2	<	Noi	rmal	HZW Standard				
		Measure	ed 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. 904L 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. 904L Stainless Steel Strips Width Tolerance

904L Stainless Steel Strips Width Tolerance Range

Thickness JIS4305 (EW)		(EW)	ASTI	M A240	GB/T 4239		
Width	< 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	