



Stainless Steel Banding & Boxed Banding



View our corporate video:
www.stainlessband.co.uk/pages/videos

Sizes and Grades

The following sizes in AISI 304/1.4301 and AISI 316/1.4401 with BA or 2B finish are available from stock.

Other widths and thicknesses up to 100mm (4") are available upon request. Aluminium and Alu/Zinc banding are also available subject to size of order and availability.

A full export service is available for worldwide supply.

Certificates of conformity, showing the exact chemical and mechanical composition of the material are supplied with each delivery. Coils are supplied banded on pallets and shrink wrapped. Maximum pallet weight 1500kg.

Banding

Thickness and Width of Stainless Steel Banding

Thickness	Width
0.4	12.7mm (1/2") & 19mm (3/4")
0.5	12.7mm (1/2") & 19mm (3/4")

Metres per kg on Stainless Steel Strip

Width (mm)	Thickness (mm)	Metres/kg	Kg/30 metres
12.70	0.50	19.5	1.54
16.00	0.50	15.50	1.94
19.00	0.50	12.98	2.31
25.00	0.50	12.98	2.31
25.00	0.60	8.26	3.63
40.00	0.80	3.87	7.74



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Boxed Banding

Metric			
Width (mm)	Thickness (mm)	Metres	Kg/Box
12.70	0.50	30.5	19.5
15.88	0.50	30.5	15.50
19.00	0.50	30.5	12.98
12.70	0.50	30.5	12.986
15.88	0.50	30.5	8.26
19.00	0.50	30.5	3.87

Boxed banding used for general fastening in a variety of industries.

Standard boxed banding sizes available in grades 304 & 316.

Banding can be supplied with sheared, deburred or round edge condition.

Bespoke sizes, thicknesses & grades available upon request and subject to size of order.

1/2" .020 T304 2B Banding 200 ft. 7lb
1/2" .020 T304 2B Banding 900 ft. 30lb
1/2" .020 T304 2B Banding Oscillated 100 LB.
3/4" .020 T304 2B Banding 200 ft. 10.5lb
3/4" .020 T304 2B Banding 900 ft. 44lb
3/4" .020 T304 2B Banding Oscillated 100 LB

Our different edge finishes are as below:



GK - Slit edge

Standard material with a maximum burr 5% of the material thickness.



Sak - Fully Rounded Edge

Many clients require material to have a fully rounded edge (SAK). This can improve product performance but also reduce the risk of Health and Safety issues when handling sharp materials.



WAK - Flat rolled edge

Many clients require material to have a deburred edge (WAK). This can improve product performance but also reduce the risk of Health And Safety issues when handling sharp materials.

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Standard widths of banding supplied are 1/2" (13mm) 5/8" (16mm) 3/4" (19mm) 1" (25mm) thickness's to be agreed between buyer and seller.

Most common thickness's are 0.4mm and 0.5mm but can be produced from 0.3mm up to 1.5mm dependent on application. Tolerance on thickness is + /-0.5mm. Banding can be supplied with sheared, deburred and round edge condition.

Characteristics

These are the most commonly used group of stainless steels often referred to as 18/8 - 304.

They offer good formability, corrosion resistance and toughness. As a result they are widely used for insulation and engineering applications. These grades are non-magnetic in the annealed condition.

Physical Properties	
Density 8.03 kg/cm³ - 0.29 ilbs/in³	Mean Coefficient of Thermal Expansion, in/in/°F (um/M•K)
Modus of elasticity 200 Gpa	32-212 °F (0-100°C) - 9.4 x 10 ⁻⁶ (16.9)
	32-600 °F (0-315°C) - 9.6 x 10 ⁻⁶ (17.3)
Electrical resistivity 0.730mm ² /m	32-1000 °F (0-538°C) - 10.2x 10 ⁻⁶ (18.4)
Thermal Conductivity BTU/hr/ft ² /ft/°F (W/ M•K)	32-1200 °F (0-649°C) - 10.4 x 10 ⁻⁶ (18.7)
at 212 °F (100 °C) - 9.4 (16.2)	Melting Range, °F (°C) - 2550 - 2650 (1399 - 1454)
at 932 °F (500 °C) - 12.4 (21.4)	

Corrosion Resistance

These steels exhibit excellent resistance to a wide range of atmospheric, chemical, textile, petroleum and food industry exposures.

Type 316 and 316L exhibit better corrosion resistance than type 304.

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Mechanical Properties - Values at 68°F 20°C

Type					
ASTM	EN	Tensile (Mpa)	Yield	Elongation	Hardness
		Min	Min	Min %	VPN
304	1.4301	515	205	40	190
304 L	1.4307	515	205	40	190
316	1.4401	515	205	40	190
316L	1.4404	485	170	40	190

Chemical Composition (typical)

Type					
ASTM	EN	C	Cr	Ni	Mo
304	1.4301	0.07	17.5 - 19.5	8.0 - 10.5	
304 L	1.4306	0.03	17.5 - 19.5	8.0 - 12.0	
316	1.4401	0.08	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00
316L	1.4404	0.03	16.0 - 18.0	10.0 - 14.0	2.00 - 3.00

Safety

There are no known health risks in handling stainless steel although it is recommended to wear protective gloves and good lifting procedure.

For more information please see our safety data sheet.

Weights and Packaging

All coils are in catch weight coils suitable for lifting by hand typical weights are 15-20kgs with a standard slit edge.

Alternatively we can supply banding with sheared, deburred or round edge condition, all packed in cardboard boxes if required. We can also supply coils oscillated wound. Individual coil weights are flexible to suit the customers requirements.

Material will be packed on wooden pallets approximately 1000mm x 1200mm x 500mm high or wooden boxes 920mm x 920mm x 400mm or smaller, all made to measure. Heat treated pallets and boxes will be supplied where requested.

Finish

The material finish for banding can be either a 2B (matt finish) or a BA (bright finish) the finish will not effect the application or properties of the material its purely visual.

Unless specified material supplied could be either finished or both.

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