

STAINLESS STEEL - 304 / 304L

RELATED SPECIFICATIONS:

Germany	304 - W.Nr 1.4301 X5CrNi18-10
	304L - W. Nr. 1.4306 X2CrNi19-11
Great Britain	304 - BS970 Part3 1991 304S31
	304L - BS970 Part3 1991 304S11
Japan	JIS 4303 SUS 304
	JIS 4303 SUS 304L
USA	ASTM 276-986 304
	304 - UNS S30400
	304L - UNS S30403
	SAE 30304
	AISI 304
	AISI 304L

DESCRIPTION:

304 is a general purpose 18/8 stainless steel with good strength and excellent corrosion resistance. Used for food processing, architectural trim, brewing and oil refinery equipment. Subject to pitting and crevice corrosion in warm chloride components. 304L is a low carbon variant of 304 and more suitable for welding.

APPLICATIONS:

Used extensively in food processing equipment, particularly in beer brewing, milk processing and wine making, chemical containers, threaded fasteners and springs.

CHEMICAL ANALYSIS:

304

	C %	Si %	Mn %	P %	S %	Cr %	Ni %	N %
Min.	-	-	-	-	-	18.00	8.00	-
Max.	0.08	1.00	2.00	0.045	0.03	20.00	11.00	0.10

304L

	C %	Si %	Mn %	P %	S %	Cr %	Ni %	N %
Min.	-	-	-	-	-	18.00	8.00	-
Max.	0.03	1.00	2.00	0.045	0.03	20.00	12.00	0.10

MECHANICAL PROPERTIES:

304 (Annealed to ASTM A276)

Finish	Dia or Thickness mm	Tensile Strength MPa Min.	Yield Strength MPa min.	Elongation in 50mm % min.
Hot finish	All	515	205	40
Cold finish	≤12.7	520	310	30
Cold finish	>12.7	515	205	30

SIZES AVAILABLE:

Round bars supplied cold drawn to h9 condition up to 25.4mm, smooth turned and polished up to 127mm and peeled over 12.7mm. Square and Hex bars are cold drawn to h11 tolerance.

Size Range: 5mm-155mm

COLOUR CODE:

304 LILAC END



304L TURQUOISE END

