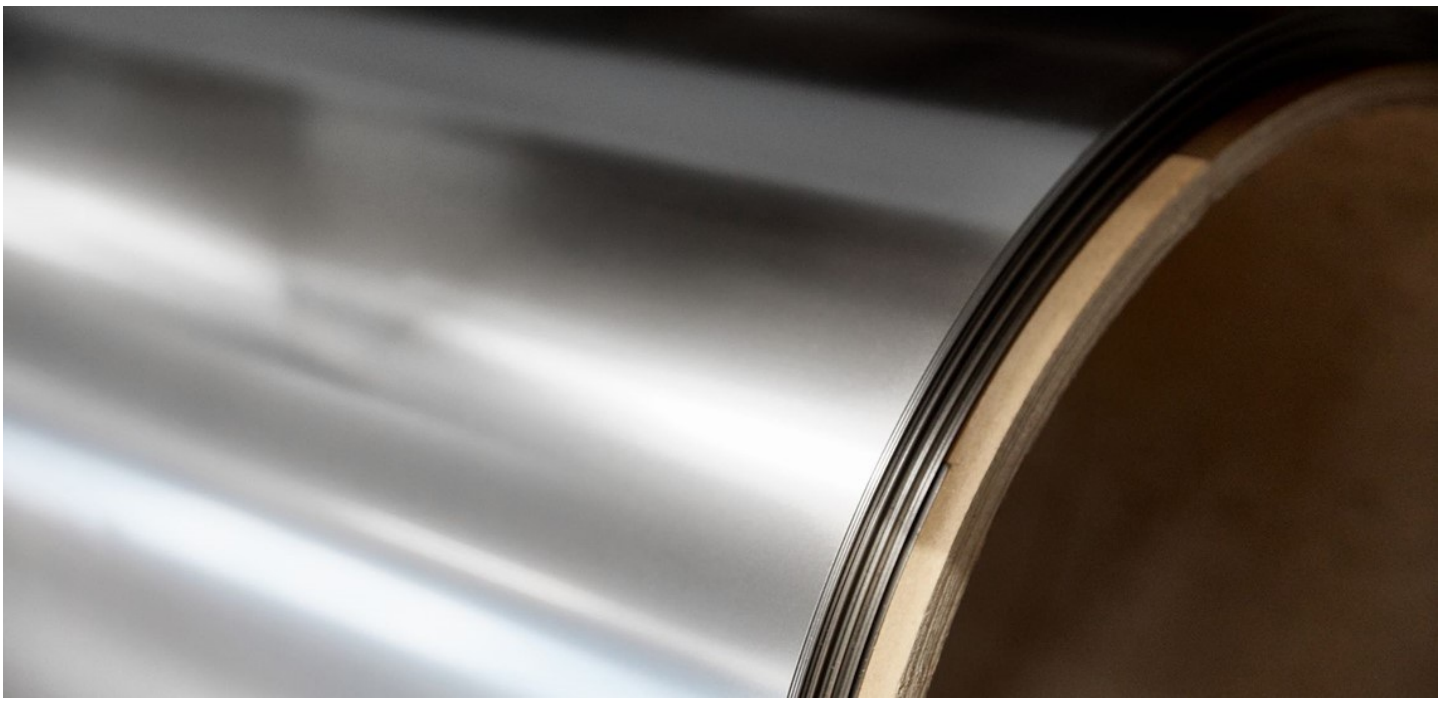
Data sheet : Stainless Steel Strips (1.4301)

STAHLBECKER



As stainless steel strip we predominantly stock material-no. 1.4301. You can order this material as strips or sheets. Our special strength is a distinctive stock of wide strips (mostly with a width of 300 mm) in a variety of thicknesses.

Material	Material Number	US Material Code (AISI/SAE)
X5CrNi18-10	1.4301	304

All statements without guarantee

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ZERTIFIKAT-NR 73 100 2150 ISO 9001

Material Standard	DIN EN 10088-2
Dimension standard	DIN EN ISO 9445
Products	Band as straightened sheets Strips
Dimensions	Width: 2,0 to 300,0 mm Thickness: 0,15 to 3,00 mm Other dimensions on request
Edges	cut or rounded
Tensile strength (Rm)	500 to 1000 N/mm²
Surface	2R / 2B
Information	• Stainless steel according to EN 10088 has a chrome proportion not less than 10,5% and a carbon proportion of less than 1,2%. • Stainless steels are resistant against rust and acids.

CHEMICAL ANALYSIS (IN%) ACCORDING TO EN 10088-2

Material Code	C	Si	Mn	P	S	Cr	Ni	N	
1.4301	≤ 0,07	≤ 1,00	≤ 2,00	≤ 0,045	≤ 0,015	17,00 - 19,50	8,00 - 10,50	≤ 0,11	For processed produc

ADDITIONAL INFORMTION

TOLERANCES

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TOLERANCES OF THICKNESS ACCORDING ISO 9445, TABLE 1, FOR NOMINAL WIDTHS BELOW 125 MM

All information in mm.
Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
0,05 ≤ t < 0,1	±0,10*t	±0,06*t	±0,04*t
0,1 ≤ t < 0,15	±0,1	±0,008	±0,006
0,15 ≤ t < 0,2	±0,015	±0,01	±0,008
0,2 ≤ t < 0,25	±0,015	±0,012	±0,008
0,25 ≤ t < 0,3	±0,017	±0,012	±0,009
0,3 ≤ t < 0,4	±0,02	±0,015	±0,01
0,4 ≤ t < 0,5	±0,025	±0,02	±0,012
0,5 ≤ t < 0,6	±0,03	±0,02	±0,014
0,6 ≤ t < 0,8	±0,03	±0,025	±0,015
0,8 ≤ t < 1	±0,03	±0,025	±0,018
1 ≤ t < 1,2	±0,035	±0,03	±0,02
1,2 ≤ t < 1,5	±0,04	±0,03	±0,02
1,5 ≤ t < 2	±0,05	±0,035	±0,025
2 ≤ t < 2,5	±0,05	±0,035	±0,025
2,5 ≤ t < 3	±0,06	±0,045	±0,03

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TOLERANCES OF THICKNESS ACCORDING TO ISO 9445, TABLE 1, WITH NOMINAL WIDTHS OF 125 TO LESS THAN 250 MM

All information in mm.
Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
0,05 ≤ t < 0,1	±0,12*t	±0,10*t	±0,08*t
0,1 ≤ t < 0,15	±0,015	±0,012	±0,008
0,15 ≤ t < 0,2	±0,02	±0,012	±0,01
0,2 ≤ t < 0,25	±0,02	±0,015	±0,01
0,25 ≤ t < 0,3	±0,025	±0,015	±0,012
0,3 ≤ t < 0,4	±0,025	±0,02	±0,012
0,4 ≤ t < 0,5	±0,03	±0,02	±0,015
0,5 ≤ t < 0,6	±0,03	±0,025	±0,015
0,6 ≤ t < 0,8	±0,035	±0,03	±0,018
0,8 ≤ t < 1	±0,04	±0,03	±0,02
1 ≤ t < 1,2	±0,045	±0,035	±0,025
1,2 ≤ t < 1,5	±0,05	±0,035	±0,025
1,5 ≤ t < 2	±0,06	±0,04	±0,03
2 ≤ t < 2,5	±0,07	±0,045	±0,03
2,5 ≤ t < 3	±0,07	±0,05	±0,035

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TOLERANCES OF THICKNESS ACCORDING TO ISO 9445, TABLE 1, WITH NOMINAL WIDTHS OF 250 TO LESS THAN 600 MM

All information in mm.
Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
0,05 ≤ t < 0,1	±0,15*t	±0,10*t	±0,08*t
0,1 ≤ t < 0,15	±0,02	±0,015	±0,01
0,15 ≤ t < 0,2	±0,025	±0,015	±0,012
0,2 ≤ t < 0,25	±0,025	±0,02	±0,012
0,25 ≤ t < 0,3	±0,03	±0,02	±0,015
0,3 ≤ t < 0,4	±0,03	±0,025	±0,015
0,4 ≤ t < 0,5	±0,035	±0,025	±0,018
0,5 ≤ t < 0,6	±0,04	±0,03	±0,02
0,6 ≤ t < 0,8	±0,04	±0,035	±0,025
0,8 ≤ t < 1	±0,05	±0,035	±0,025
1 ≤ t < 1,2	±0,05	±0,04	±0,03
1,2 ≤ t < 1,5	±0,06	±0,045	±0,03
1,5 ≤ t < 2	±0,07	±0,05	±0,035
2 ≤ t < 2,5	±0,08	±0,06	±0,04
2,5 ≤ t < 3	±0,09	±0,07	±0,045

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WIDTH TOLERANCES ACCORDING ISO 9445, TABLE 4, FOR NOMINAL WIDTHS BELOW 40 MM

All dimensions in mm and with a lower barrier of -0 mm. The range of tolerance can be shifted upon agreement. Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
t < 0,25	+0,17	+0,13	+0,1
0,25 ≤ t < 0,5	+0,2	+0,15	+0,12
0,5 ≤ t < 1,0	+0,25	+0,22	+0,15
1 ≤ t < 1,5	+0,25	+0,22	+0,15
1,5 ≤ t < 2,5	-	-	-
2,5 ≤ t < 3	-	-	-

WIDTH TOLERANCES ACCORDING ISO 9445, TABLE 4, WITH NOMINAL WIDTHS OF 40 TO LESS THAN 125 MM

All dimensions in mm and with a lower barrier of -0 mm. The range of tolerance can be shifted upon agreement. Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
t < 0,25	+0,2	+0,15	+0,12
0,25 ≤ t < 0,5	+0,25	+0,2	+0,15
0,5 ≤ t < 1,0	+0,25	+0,22	+0,17
1 ≤ t < 1,5	+0,3	+0,25	+0,17
1,5 ≤ t < 2,5	+0,4	+0,25	+0,2
2,5 ≤ t < 3	+0,5	+0,3	+0,25

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WIDTH TOLERANCES ACCORDING ISO 9445, TABLE 4, WITH NOMINAL WIDTHS OF 125 TO LESS THAN 250 MM

All dimensions in mm and with a lower barrier of -0 mm. The range of tolerance can be shifted upon agreement. Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
t < 0,25	+0,25	+0,2	+0,15
0,25 ≤ t < 0,5	+0,3	+0,22	+0,17
0,5 ≤ t < 1,0	+0,4	+0,25	+0,2
1 ≤ t < 1,5	+0,5	+0,3	+0,22
1,5 ≤ t < 2,5	+0,6	+0,4	+0,25
2,5 ≤ t < 3	+0,6	+0,4	+0,25

WIDTH TOLERANCES ACCORDING ISO 9445, TABLE 4, WITH NOMINAL WIDTHS OF 250 TO LESS THAN 600 MM

All dimensions in mm and with a lower barrier of -0 mm. The range of tolerance can be shifted upon agreement. Usually strips are produced at normal or fine tolerance. Precision tolerance is available on demand.

Nominal thickness t	Normal	Fine	Precision
t < 0,25	+0,5	+0,5	+0,4
0,25 ≤ t < 0,5	+0,6	+0,5	+0,4
0,5 ≤ t < 1,0	+0,7	+0,6	+0,5
1 ≤ t < 1,5	+1	+0,7	+0,6
1,5 ≤ t < 2,5	+1	+0,8	+0,6
2,5 ≤ t < 3	+1,2	+1	+0,8

LENGTH TOLERANCES ACCORDING ISO 9445, TABLE 7

All dimensions in mm and with a lower barrier of -0 mm.

Nominal Length l	Normal tolerance	Special tolerance (S)
l ≤ 2000	+3	+1,5
2000 < l ≤ 4000	+5	+2

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