

MATERIAL INFORMATION

Material code	1.1274	1.2003	1.4034 (1.2083)	1.4310	2.0321
DIN	DIN Ck 101	DIN75 Cr1	DIN X 46 Cr 13	DIN X12 CrNi177	CuZn 37
AISI	1095	1075	420	301	
ASTM	G 10950	G 10 780	542 000	S 30100	C 27200
Dimensions Widths	6-305 mm	320 mm	320 mm	12,7-600 mm	150 mm
Thickness	0,001-2,00 mm	1,00-4,00 mm	1,00-3,00 mm	0,003-3,00 mm	0,01-1,00 mm
Width Tolerance	B2	—	EN 10258 R	EN 10258 R	DIN 1791
Thickness Tolerance	T3	T3	T3	T3 (party EN 10258)	T3
Surface	white polished	unpolished	brush polished	bright (IIa or f acc. DIN 17440)	bright
Edges	widths 6 and 12,7 mm: - up to 0,09 mm cut edges - from 0,10 mm rounded edges Other widths: cut edges	natural edge	cut edges	cut edges	cut edges
Straightness	normal	normal	normal	SR	DIN 1791
Flatness	specially exactly	specially exactly	specially exactly	Wave height max. 1 mm	DIN 1791
Condition	hardened and tempered (H + A)	hardened and tempered (H + A)	hardened and tempered (H + A)	temper rolled - full hard K 1	full-hard (F 54, H 170 nach DIN 17670)
Tensile strenght	See table on page H/7				
Analyse	C: max. 1.05% Si: 0,15-0,30% Mn: 0,30-0,45% P: max. 0,02% S: max. 0,02% Cr: ca. 0,01%	C: 0,70-0,80% Si: 0,25-0,50% Mn: 0,60-0,80% P: max. 0,03% S: max. 0,03% Cr: 0,30-40%	C: 0,40-0,50% Si: 0,30% Mn: 0,35% P: max. 0,045% S: max. 0,03% Cr: 13,5% Ni: 0% Mo: 0%	C: max. 0,15% Si: max. 1,5% Mn: max. 2,0% P: max. 0,045% S: max. 0,03% Cr: 16-18% Ni: 7-9% Mo: max. 0,80%	C: 62-64% Pb: max. 0,1% Zn: balance Si: -

Hardened and tempered High Carbon Steel 1.1274

Due to a carbon content of more than 1% this alloy is ideal for feeler gauge stock, shims and Springs where corrosion problems are not expected. This material is magnetic. Available in thicknesses between 0.01 and 2.0 mm.

Hardened and tempered Tool Steel 1.2003

A small amount of Chromium leads to a higher wear resistance and better hardening for large widths. This alloy is also suitable for small tools due to a Rockwell hardness of 47-51 HRC. This magnetic alloy is our standard Carbon steel for thicknesses between 1.0 and 4.0 mm.

Hardened and tempered Stainless Tool Steel 1.4034 (1.2083)

This Steel is corrosion resistant at wet air, steam and water, but not resistant against chloride ions and acids. Compared to 1.4310 (AISI 301) this alloy has a lower corrosion resistance.

This alloy has advantages in better wear resistance and low inner stress. It is ideal for gages, tools, machine knives in the food industry and scalpels. The alloys 1.4034 and 1.2083 have little differences in the carbon content. This alloy is magnetic. Available in thicknesses between 1.0 and 3.0 mm.

Temper rolled Stainless Steel 1.4310

This Steel has a good corrosion resistance due to a content of 17% Chromium and 7% Nickel. A high tensile strength is obtained by cold rolling. Compared to Alloy 1.4301 (AISI 304) a much higher tensile strength of more than 2000 N/mm² can be reached. Because of this, 1.4310 is suitable for stainless feeler gage stock, precision foils, stainless Springs and parts of higher strength. This alloy is little magnetic and can not be hold by magnetic tables of grinding machines. Available in more than 60 thicknesses between 0.003 and 3.0 mm.

Temper rolled Brass 2.0321

With a composition of 63% Copper and 37% Zinc this Brass is the standard alloy for temper rolled brass. It is not magnetic. Available from 0.01 to 1.00 mm.

We can also supply Carbon steels like Ck 75 (1.1248) and Ck 85 (1.1269) as well as Stainless Steels like 1.4301 (AISI 304) and 1.4404 (AISI 316 L). Please ask for availability and price if you need these or similar alloys.