

Below mentioned program overview gives an impression of the possibilities of GNS. Given the enormous diversity in dimensions there is only mention made of available qualities. The products are available in DIN and ASME / ANSI qualities and in many cases with certificates according to EN 10204, additional PMI tests etc.

Are you curious about the possibilities? Do not hesitate to contact us. We are always willing to help and would like to think along with you about your material needs. Our options will surprise you.

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1 Spring steel; former and current description

1.1 Spring steel:

Material number	Description according EN 10132-4	Description according DIN 17222 (expired)	Description according AISI / ASTM
1.0535	-	C55	1055
1.0601	-	C60	1060
1.0603	-	C67	1070
1.0605	-	C75	1074
1.1203	-	Ck55	1055
1.1204	C55S	-	1055
1.1211	C60S	-	1060
1.1217	C90S	-	-
1.1221	-	Ck60	1060
1.1224	C125S	-	-
1.1231	C67S	Ck67	1070
1.1248	C75S	Ck75	1078
1.1269	C85S	Ck85	1086
1.1274	C100S	Ck101	1095
1.2002	125Cr2	125 Cr 1	-
1.2067	102Cr6	100 Cr 6	52100
1.2235	-	80 CrV 2	-
1.5026	56Si7	55 Si 7	9255
1.5634	75Ni8	-	-
1.8159	51CrV4	50 CrV 4	-

Explanation of abbreviations:

+A	=	Soft annealed
+LC	=	Annealed and lightly rolled
+AC	=	Annealed for the formation of spherical carbides
+CR	=	Cold rolled
+QT	=	Quenched and tempered



2 Delivery program spring steel

2.1 Hardened, bright polished spring steel ¹

Material thickness ²	Width ²	Quality ³	Tensile strength in N/mm ⁴	Quality acc.	Tolerances acc ⁵
0,10 - 3,00 mm	until 300 mm	C55S (C55 and Ck55)	980 – 1275	EN 10083 (heretofore DIN 17200) EN 10132-4 (heretofore DIN 17222)	EN 10140 (heretofore DIN 1544)
0,10 - 1,50 mm		C67S (C67 and Ck67)	1320 - 1525		
0,15 - 4,00 mm		C85S (Ck85), C75S, (C75 and Ck75)	1320 - 1800		
0,03 - 2,00 mm		C100S (Ck101)	1650 - 2250		

2.2 Not hardened, hardenable spring steel ¹

Material thickness ²	Width ²	Quality ³	Tensile strength in N/mm ⁴	Quality acc.	Tolerances acc ⁵
0,05 - 4,00 mm	until 300 mm	C45 and Ck45	Depending om thickness between 490 en 800	EN 10083 (heretofore DIN 17200) EN 10132-4 (heretofore DIN 17222)	EN 10140 (heretofore DIN 1544)
		C60S (C60 and Ck60)			
		C75S (C75 and Ck75 until Ck101)			

2.3 Stainless steel spring steel ¹

Material thickness ²	Width ²	Quality ³	Tensile strength in N/mm ⁴	Quality acc.	Tolerances acc ⁵
0,03 - 3,00 mm	tot 300 mm	RVS 301 (1.4310)	1000 - 2100	EN 10088 (heretofore DIN 17224/17440/17441)	EN 10258 (heretofore DIN 59381)
		RVS 304 (1.4301)	500 - 750		

¹ Version with cutting or rounded edges.

² Larger thicknesses and widths on request.

³ Missing grades on request.

⁴ Your preferred strength to be agreed in advance.

⁵ Different tolerances discussable.