

Technical Data Steel and Stainless Steel ¹⁾

		Steel		Spring Steel	Stainless Steel		
		C4D	C18D	Spring Steel DH	1.4301	1.4404	
Material - No.	DIN / EN	1.0300	1.0416	-	1.4301	1.4404	
	UNS	G10060	G10180	-	304	316L	
Nominal Composition	[%]	≤ 0,06 C	0,15 - 0,20 C	0,45 – 1,00 C	18 Cr 10 Ni Rest Fe	18 Cr 10 Ni 2 Mo Rest Fe	
Conductivity ²⁾	[m/(Ohm mm ²)]	7,4	6,5	5	1,4	1,3	
Conductivity ²⁾	[% IACS]	13	11	8,5	2,4	2,3	
Thermal Conductivity ²⁾	[W/(m K)]	50	50	50	15	15	
Coefficient of Thermal Expansion ³⁾	[10 ⁻⁶ / K]	13	13	13	16,5	16,5	
Tensile Strength annealed	[N/mm ²]	350	450	-	600	600	
Elongation annealed	[%]	25	25	-	30	40	
Tensile Strength hard	[N/mm ²]	600	800	2500	1500	1500	
Density	[g/cm ³]	7,85	7,85	7,85	7,90	7,98	

1) Nominal data for diameter 0,8 mm

2) At 20° C

3) Temperature range 20 - 200° C