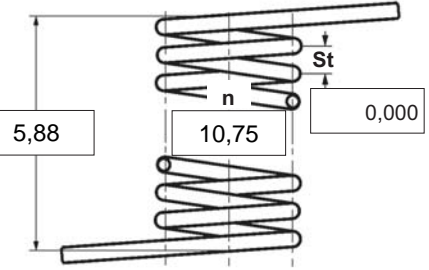


- $\alpha$  degree Unstressed leg position
- $\alpha_1$  degree Prestressed rotational angle
- $\alpha_2$  degree Loaded rotational angle
- $\alpha_h$  degree Excursion
- $\alpha_n$  degree Maximum rotational angle
- $d$  mm Wire diameter
- $D_{dmin}$  mm Min. possible mandrel diameter
- $D_{dmax}$  mm Max. possible mandrel diameter
- $D_e$  mm Outer coil diameter
- $D_i$  mm Inner coil diameter
- $F_1$  N Prestressed spring force
- $F_2$  N Loaded spring force
- $L_{k0}$  mm Length of spring body when relaxed
- $LS$  mm Length of leg
- $M_1$  Nmm Prestressed torque
- $M_2$  Nmm Loaded torque
- $M_n$  Nmm Maximum torque
- $n$  pc. Active coils
- $RH$  mm Distance power flow point from centre
- $St$  mm Distance between coils (pitch)
- Weight g Weight of one spring in grammes



Spring test acc. to DIN ISO 2859/1 test level II

**1 Coiling direction**  
 left  right

**5 Excursion  $\alpha_h$**   degr.

**12 Tolerances to DIN 2194**

Grade	Di	Lk0	LSH,LSR	$\alpha, \alpha_1, \alpha_2$	M1,M2	Wire diameter d to DIN 2076
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**2 Form of legs**  
 tangential, straight, no bends \*   
 \*We can also supply torsion springs with any form of leg for an extra charge.

**6 Stress cyc. end. N**   
**7 Stress cycle frequ. n**  /  
**8 Application temp.**  °C  
**9 Material**  
 EN 10270-3-1.4310

**13 Production compensation through**

A spring torque and the associated swing angle	$\alpha$	<input checked="" type="checkbox"/>
A spring torque and the associated swing angle and $\alpha_0$	$n, d$	<input type="checkbox"/>
	$n, D_i$	<input type="checkbox"/>
Two spring resistances and the associated swing angle	$\alpha, n, d$	<input type="checkbox"/>
	$\alpha, n, D_i$	<input type="checkbox"/>

**3 Fixing**  
 Recumbent leg  Lever leg

**10 Wire or rod surface**  
 drawn  rolled  metal-cut

**Prices**

Cantidad progresiva	Precio unidad [EUR]
1	5,1600 €
2	3,6400 €
3	3,4700 €
7	2,4200 €
17	1,1500 €
37	0,8500 €
75	0,6800 €
125	0,4859 €
175	0,4196 €
250	0,3695 €
350	0,3536 €
450	0,3284 €

**4 Load**  
 in winding direction  
 against winding direction

**11 Surface treatment**

**Remarks**  
 País de origen: DE | Número de arancel aduanero: 73202089