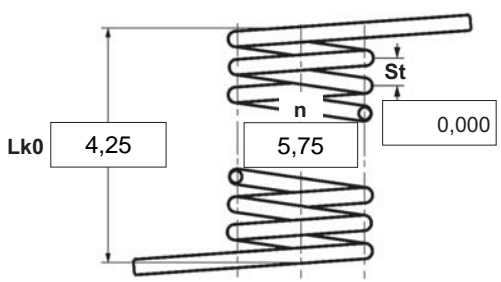


- $\alpha$  degree Unstressed leg position
- $\alpha 1$  degree Prestressed rotational angle
- $\alpha 2$  degree Loaded rotational angle
- $\alpha h$  degree Excursion
- $\alpha n$  degree Maximum rotational angle
- $d$  mm Wire diameter
- $Ddmin$  mm Min. possible mandrel diameter
- $Ddmax$  mm Max. possible mandrel diameter
- $De$  mm Outer coil diameter
- $Di$  mm Inner coil diameter
- $F1$  N Prestressed spring force
- $F2$  N Loaded spring force
- $Lk0$  mm Length of spring body when relaxed
- $LS$  mm Length of leg
- $M1$  Nmm Prestressed torque
- $M2$  Nmm Loaded torque
- $Mn$  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

|  |  |
|--|--|
| <p><b>1 Coiling direction</b></p> <p><input type="checkbox"/> left <input checked="" type="checkbox"/> right</p>   | <p><b>5 Excursion <math>\alpha h</math></b> <input type="text"/> degr.</p>                     |
| <p><b>2 Form of legs</b></p> <p>tangential, straight, no bends *</p> <p><input type="checkbox"/> tangential <input checked="" type="checkbox"/> straight</p> <p><small>*We can also supply torsion springs with any form of leg for an extra charge.</small></p> | <p><b>6 Stress cyc. end. <math>N</math></b> <input type="text"/></p>                           |
| <p><b>3 Fixing</b></p> <p>Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/></p>  | <p><b>7 Stress cycle frequ. <math>n</math></b> <input type="text"/> / <input type="text"/></p> |
| <p><b>4 Load</b></p> <p><input type="checkbox"/> in winding direction <input type="checkbox"/> against winding direction</p>   | <p><b>8 Application temp.</b> <input type="text"/> °C</p>                                      |
| <p><b>9 Material</b></p> <p>EN 10270-3-1.4310</p>  |  |
| <p><b>10 Wire or rod surface</b></p> <p><input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut</p>   |  |
| <p><b>11 Surface treatment</b></p> <p><input type="text"/></p>   |  |

**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"/> |

**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"/>              |
|   | $n, Di$ <input type="checkbox"/>             |
| Two spring resistances and the associated swing angle         | $\alpha, n, d$ <input type="checkbox"/>      |
|   | $\alpha, n, Di$ <input type="checkbox"/>     |

**Prices**

| Quantity scale | Single price [EUR] |
|----------------|--------------------|
| 1              | 5,1100 €           |
| 2              | 3,6000 €           |
| 3              | 3,4300 €           |
| 7              | 2,2200 €           |
| 17             | 1,1200 €           |
| 37             | 0,7400 €           |
| 75             | 0,5500 €           |
| 125            | 0,4570 €           |
| 175            | 0,4069 €           |
| 250            | 0,3567 €           |
| 350            | 0,3095 €           |
| 450            | 0,2652 €           |

**Remarks**

Country of origin: DE | Customs tariff number: 73202089