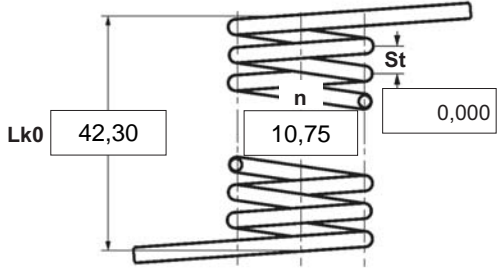


- α degree Unstressed leg position
- $\alpha 1$ degree Prestressed rotational angle
- $\alpha 2$ degree Loaded rotational angle
- αh degree Excursion
- αn degree Maximum rotational angle
- d mm Wire diameter
- Ddmin mm Min. possible mandrel diameter
- Ddmax mm Max. possible mandrel diameter
- De mm Outer 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

| 1 Coiling direction <input type="checkbox"/> left <input checked="" type="checkbox"/> right | 5 Excursion αh <input type="text"/> degr. | 12 Tolerances to DIN 2194 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Grade</th> <th>Di</th> <th>Lk0</th> <th>LSH,LSR</th> <th>$\alpha, \alpha 1, \alpha 2$</th> <th>M1, M2</th> <th>Wire diameter d to DIN 2076</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>3</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> | 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"/> |
|---|---|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------|----------|-----------------------------|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------|----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| 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 <input type="text"/> | 7 Stress cycle frequ. n <input type="text"/> / | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Fixing Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/> | 8 Application temp. <input type="text"/> °C | 9 Material EN 10270-3-1.4310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Load <input type="checkbox"/> in winding direction <input type="checkbox"/> against winding direction | 10 Wire or rod surface <input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut | 13 Production compensation through A spring torque and the associated swing angle α <input checked="" type="checkbox"/> A spring torque and the associated swing angle and $\alpha 0$ <input type="checkbox"/> Two spring resistances and the associated swing angle α, n, d <input type="checkbox"/> α, n, Di <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Surface treatment <input type="text"/> | | Prices <table style="width: 100%;"> <thead> <tr> <th>Quantity scale</th> <th>Single price [EUR]</th> </tr> </thead> <tbody> <tr><td>1</td><td>5,5300 €</td></tr> <tr><td>2</td><td>3,9000 €</td></tr> <tr><td>3</td><td>3,7100 €</td></tr> <tr><td>7</td><td>2,9000 €</td></tr> <tr><td>17</td><td>1,4300 €</td></tr> <tr><td>37</td><td>1,1000 €</td></tr> <tr><td>75</td><td>0,9400 €</td></tr> <tr><td>125</td><td>0,6511 €</td></tr> <tr><td>175</td><td>0,6135 €</td></tr> <tr><td>250</td><td>0,5760 €</td></tr> <tr><td>350</td><td>0,5306 €</td></tr> <tr><td>450</td><td>0,4927 €</td></tr> </tbody> </table> | Quantity scale | Single price [EUR] | 1 | 5,5300 € | 2 | 3,9000 € | 3 | 3,7100 € | 7 | 2,9000 € | 17 | 1,4300 € | 37 | 1,1000 € | 75 | 0,9400 € | 125 | 0,6511 € | 175 | 0,6135 € | 250 | 0,5760 € | 350 | 0,5306 € | 450 | 0,4927 € | | |
| Quantity scale | Single price [EUR] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5,5300 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3,9000 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3,7100 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2,9000 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 1,4300 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 1,1000 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 350 | 0,5306 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 0,4927 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remarks
 Country of origin: DE | Customs tariff number: 73202089