

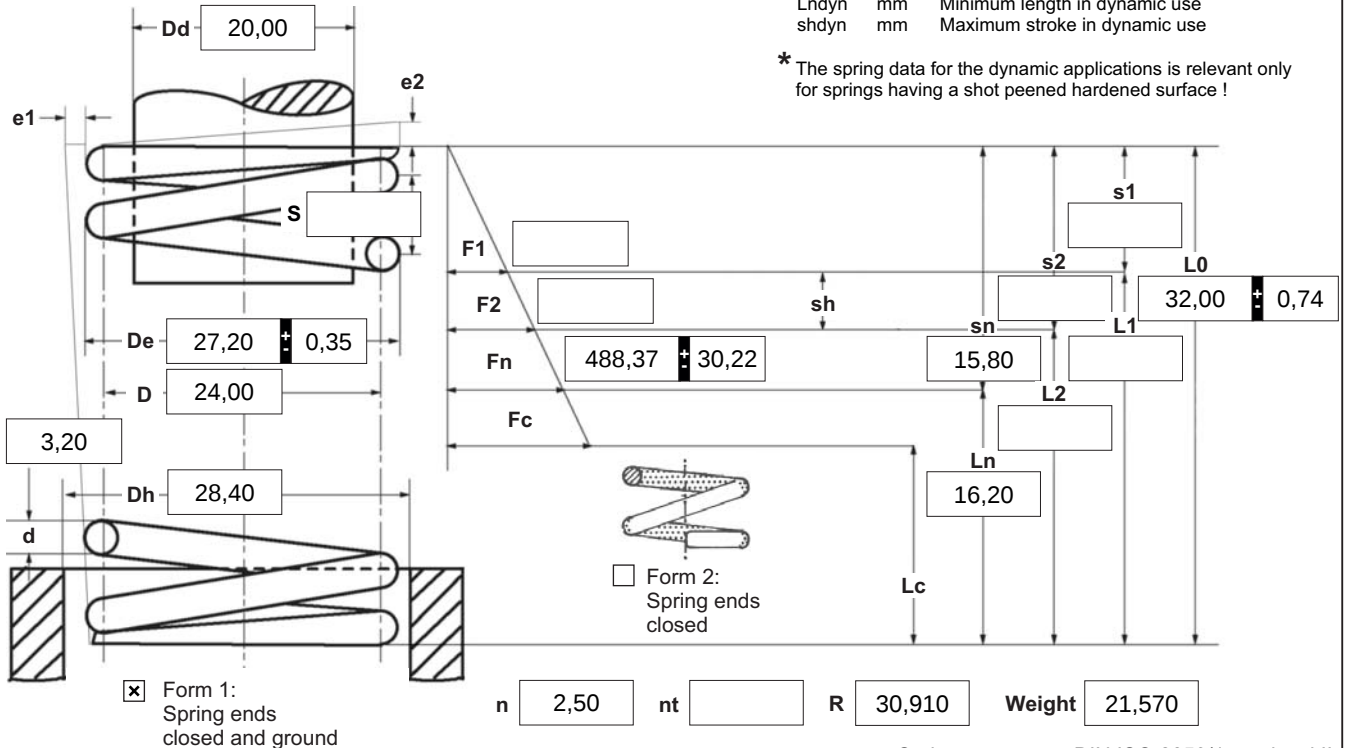
d mm Wire diameter  
D mm Mean coil diameter  
Dd mm Diameter of mandrel  
De mm Outer coil diameter  
Dh mm Diameter of bush  
e1 mm Perm.dev. perpendicular line  
e2 mm Perm.dev. parallel line  
F1 N Prestressed spring force  
F2 N Loaded spring force

F<sub>n</sub> N Maximum force in static use  
F<sub>c</sub> N Theoretic maximum force at L<sub>c</sub>  
L0 mm Length of unstressed spring  
L1 mm Prestressed spring length  
L2 mm Loaded spring length  
L<sub>k</sub> mm Buckling length  
L<sub>n</sub> mm Minimum length in static use  
L<sub>c</sub> mm Block length  
n pc. Active coils

nt pc. Total coils  
R N/mm Spring rate  
S mm Pitch (distance between coils)  
s1 mm Prestressed spring deflection  
s2 mm Loaded spring deflection  
sh mm Maximum stroke in static use  
sn mm Maximum spring deflection in static use  
Weight g Weight of one spring in grammes

F<sub>ndyn</sub> N Maximum force in dynamic force  
F<sub>ndtol</sub> N (+/-) tolerance of maximum dynamic force  
L<sub>ndyn</sub> mm Minimum length in dynamic use  
sh<sub>dyn</sub> mm Maximum stroke in dynamic use

\* The spring data for the dynamic applications is relevant only for springs having a shot peened hardened surface !



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

# 1 Coiling direction

☐ left ☒ right

# 2 Dynamic load \*

F<sub>ndyn</sub> 409,55

F<sub>ndtol</sub> 29,87

L<sub>ndyn</sub> 18,75

sh<sub>dyn</sub> 5,00

# 3 Excursion sh

mm

# 4 Stress cyc. end. N

# 5 Stress cycle frequ. n

/

# 6 Application temp.

°C

# Remarks

Country of origin: DE | Customs tariff number: 73202081

# 7 Guidance and seat to DIN EN 13906-1

☐ mandrel ☐ bush

Buckling length L<sub>k</sub> at

v=0,5 / Bild 5 0,00 mm



# 8 Material

EN 10270-1

# 9 Wire or rod surface

☒ drawn ☐ rolled ☐ metal-cut

# 10 Springs deburred

☐ inside ☐ outside

# 11 Surface treatment

☐ shot peened

# 12 Tolerances to DIN EN 15800

| Grade | De,Di,D                             | L0                                  | F1,F2                               | e1,e2                               | 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"/>            |

# 13 Production compensation through

|                                                                |               |                                     |
|----------------------------------------------------------------|---------------|-------------------------------------|
| A spring resistance and associated length of tensed spring     | L0            | <input type="checkbox"/>            |
| A spring resistance, associated length of tensed spring and L0 | n, d          | <input checked="" type="checkbox"/> |
|                                                                | n, De, Di     | <input type="checkbox"/>            |
| Two spring resistances and associated lengths of tensed spring | L0, n, d      | <input type="checkbox"/>            |
|                                                                | L0, n, De, Di | <input type="checkbox"/>            |

# 14 Setting springs

All springs which show setting tendency because of their size are pre-set within the production process.

# Prices

| Quantity scale | Single price [EUR] |
|----------------|--------------------|
| 1              | 5,4200 €           |
| 2              | 3,8200 €           |
| 3              | 3,6400 €           |
| 7              | 2,6600 €           |
| 17             | 1,3800 €           |
| 37             | 1,0200 €           |
| 75             | 0,8900 €           |
| 125            | 0,5823 €           |
| 175            | 0,5445 €           |
| 250            | 0,4945 €           |
| 350            | 0,4610 €           |
| 450            | 0,4169 €           |