Data sheet Compression spring :  D-005

- **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
- **Fn N** Maximum force in static use
- **Fc N** Theoretic maximum force at \( L_c \)
- **L0 mm** Length of unstressed spring
- **L1 mm** Prestressed spring length
- **L2 mm** Loaded spring length
- **Lk mm** Buckling length
- **Ln mm** Minimum length in static use
- **Lc mm** Block length
- **n pc.** Aktive 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

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

**Form 1:**
- Spring ends closed and ground

**Form 2:**
- Spring ends closed

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

**1 Coiling direction**
- left
- right

**2 Dynamic load**
- Fndyn 1,20
- Fndtol 0,10
- Lndyn 4,45
- shdyn 4,04

**3 Excursion sh mm**

**4 Stress cyc. end. N**

**5 Stress cycle frequ. n /**

**6 Application temp. °C**

**7 Guidance and seat to DIN EN 13906-1**
- mandrel
- bush

**Buckling length \( L_k \) at**
- \( v=0,5 \)/ Bild 5
- 14,53 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**

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<th>Grade</th>
<th>De,Di,D</th>
<th>L0</th>
<th>F1,F2</th>
<th>e1,e2</th>
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**13 Production compensation through**
- A spring resistance and associated length of tensed spring
- A spring resistance, associated length of tensed spring and \( L_0 \)
- Two spring resistances and associated lengths of tensed spring

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

**Prices**

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