

☒ General

☐ Material

☐ Stress coefficient

☒ Diameter

☐ Wire diameter

☐ Inner coil diameter

☐ Mean coil diameter

☐ Outer coil diameter

☒ Lengths

☐ Unstressed spring length

☐ Spring length at F1

☐ Length of spring body when relaxed

☒ Forces

☐ Initial Tension

☐ Prestressed spring force

☐ Alignment force for F0 (winding bench)

☐ Alignment force for F0 (winding autom.)

☒ Spring rate

☐ Spring rate

☒ Coils

☐ Active coils

☐ Number of non-elastic coils

☒ Static load

☐ Corrected shearing stress at F1

☐ Corrected shearing stress at Fn

☐ τ_{k2} / τ_{zul}

☐ τ_{kn} / τ_{zul}

Extension spring

Spring steel wire

DIN 17 223 / 1 - D

k 1,157

d 1,60 mm

Di 12,30 $\pm 0,35$ mm

D 13,90 $\pm 0,35$ mm

De 15,50 $\pm 0,35$ mm

L0 80,00 $\pm 1,80$ mm

L1 190,00 mm

Lk 49,60 mm

F0 0,00 N

F1 91,15 $\pm 5,22$ N

19,23 N

10,11 N

R 0,83 N/mm

n 30,00

nt-n 0,00

τ_{k1} 911,77 N/mm₂

τ_{kn} 926,44 N/mm₂

0,00

1,00