# **PENTON**

Spring Steel Strip

BS 1449: Part 1: 1991: CS80



#### Coils Hardened, Tempered and Polished Imperial (ins) **Dressed Edges** 3%× .010 ½× .010 %× .010 34× .010 × .010 11/4× .010 1½× .010 ½× .018 %× .018 3/4× .015 × .015 11/4× .015 1½× .015 ½× .022 %× .022 3/4× .020 1 × .020 11/4× .020 1½× .020

## Coils Annealed Sheared Edges

Imperial (ins)

 $4 \times .064$  $4 \times .032$  $4 \times .036$  $4 \times .048$ 

### Chemical Composition

percentage C 0.75-0.85 Mn 0.50-0.90

0.05-0.35

0.045 max.

0.045 max.

#### Characteristics

Complying with the requirements of BS 1449: CS 80 and BS 970: 070A78 (En42) Penton spring steel strip is cold rolled, oil hardened and tempered, it has a polished finish and the edges are dressed. Sheared edge annealed strip is also stocked.

#### **Typical Applications**

Springs, guide strips, where the parts do not require severe forming or bending. Annealed spring steel can be used for similar applications but where severe bending is involved, prior to hardening and tempering.

#### **Tolerances**

Thickness	Tolerance +/–
Up to and including 0.015"	0.0010"
Over 0.015" Up to and including 0.02	4" 0.0012"
Over 0.024" Up to and including 0.03	9" 0.0014"
Over 0.039" Up to and including 0.04	8" 0.0016"
Over 0.048" Up to and including 0.06	0.0018"

#### Form of Supply

Coils: Supplied to the required length or weight.

Hardened &

< 0.020" thick 450/500 VPN Tempered:

≥0.020" thick 400/450 VPN

<0.036" thick 185 VPN max. Annealed:

≥0.036" thick 195 VPN max.

#### **Heat Treatment**

Annealed spring steel can be hardened and tempered using the following temperatures. Hardening: 800-840°C quench in oil. Tempering: 250-350°C depending on hardness required.

### **Engineering Plastic Bar**

Macreadys supply a range of machining quality engineering plastic products as shown opposite:

Nylon 6, Nylon 66, Acetal, Delrin, Polypropylene, Polyvinyl Chloride (P.V.C.)

Available in 3 metre lengths in round, square and hexagonal section, the above products can also be supplied in sheets, tubes or blocks. A complete cutting service is provided.