



Webster & Horsfall Limited Wire Data-Sheet

Hard Drawn Spring Wire

Applications: Mechanical springs extension and torsion.

Standards: *Wire drawn to the widest range of standards in the world.*

Diameter range: 0.1mm - 9.5mm

Tensile range: 930 - 3780 N/mm²

Tensile Examples	Minimum	Maximum
0.1mm	2160 N/mm ²	3780 N/mm ²
3.0mm	1250 N/mm ²	2150 N/mm ²
4.0mm	1170 N/mm ²	1920 N/mm ²
9.0mm	940 N/mm ²	1540 N/mm ²
9.5mm	930 N/mm ²	1390 N/mm ²

Finish: Phosphate coated (plain).

Dry drawn wire with soap lubrications grey in colour.

Finish	
Wet drawn	Oil drawn polished finish
Galvanised	Drawn after galvanising (wet or dry drawn)
Tinned	Final hot dip tin coat
Linished	Mechanically ground polish finish (finally oiled)

Other finishes on request

Shaped: The above can also be supplied in shaped wire.

Packaging: Catchweight coils, Reels/Spools (plastic), Metal Reels (up to 300kgs) Formers, Cut Lengths, Specific Coil Weights/Sizes.

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Oil Tempered Wire

Applications: Obtained by in-line hardening + tempering, these wires are ideal for quality springs in high stress environments. Where good mechanical properties are required.

Standards for Oil Tempered Wires: Wire drawn to the widest range of standards in the world.

Diameter range:

Material	Range
Carbon	0.76mm - 9.5mm
Chrome Vanadium	1.4mm - 10.0mm
Silicon Chrome	1.1mm - 10.0mm

Tensile range:

Material	Range
Carbon	1290 N/mm ² - 2050 N/mm ²
Chrome Vanadium	1370 N/mm ² - 2030 N/mm ²
Silicon Chrome	1500 N/mm ² - 2230 N/mm ²

Finish: Black oxide (Controlled scale) with protective oil

Annealed: All of the above wires are available in the annealed, or annealed and lightly drawn condition. For hardening and tempering after spring formation.

Shaped: The above can also be supplied in shaped wire

Packaging: Catchweight coils up to 500kgs, Formers, Cut Lengths, Specific Coil Weights/Sizes.

Normal condition of supply is cast to fly straight, but all sizes can be cast to black if required.

Drawn Square Wire

Hard drawn Carbon spring wire: 0.71mm - 8.0mm

Stainless spring wire: 0.8mm - 5.53mm

Annealed Carbon and low alloy spring wire: 0.8mm - 9.5mm

Rolled section wire Carbon and stainless steel wire
(stainless by special arrangement - maximum width 4mm)

Width maximum 9.5mm Thickness range 0.5mm - 3.26mm
1.0mm 0.4mm - 0.9 mm

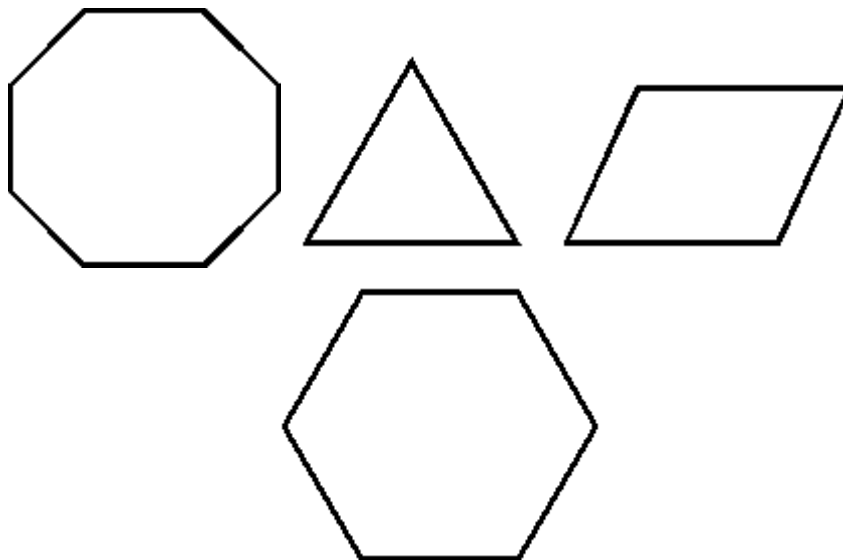
Oil tempered Carbon and low alloy spring steel wire (round edge only)

Width maximum 12.5mm Thickness range 1.63mm-6.35mm 1.27mm 0.5mm -
1.0mm

Annealed Carbon and low alloy

Width maximum 12.5mm Thickness range 0.5mm - 6.35mm 1.0mm 0.4mm -
0.89mm

Special shapes and sections - we can draw any shape:



Al and HM rope sections, special spring wire sections, ie diamonds, hexagons and trapezoidals, can be manufactured by special arrangement.



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Stainless Steel Wires (Austenitic)

Applications: Corrosion resistant mechanical springs, extension, compression and tension.

Standard for Types 302, 316 or 321: Wire drawn to the widest range of standards in the world.

Diameter range:

0.1mm - 9.5mm (Type 302)
0.1mm - 4.0mm (Type 316 + 321)

Tensile range:

695 N/mm² - 2600 N/mm²

Finish:

Finish Phosphate coated (plain) Dry drawn wire with soap lubricants.
Wet drawn Oil drawn polished finish.
Finished Mechanically ground polish finish.
Degreased Chemically degreased / desoaped
(in coil only).

Shaped: The above can also be supplied in shaped wire.

Packaging: Catchweight coils, Reels/Spools (plastic), Metal Reels (up to 300kgs), Cut Lengths, Specific Coil Weights/Sizes.



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Packaging For Wire

All wire can be supplied as specified below.

Coil weights: Other than catch weights;

0.15mm - 1.64mm Any wire size

125gms - 5kg

250gms - 10kgs

500gms - 25kgs

1kg - 50kgs

Large coils: Up to 500kgs coils can be produced from 5mm diameter and above

Fibre reels:

Wire sizes weight (approx)

250mm 0.15mm-0.61mm 25kgs

200mm 0.15mm-0.61mm 15kgs

180mm 0.15mm-0.61mm 5kgs

Plastic reels:

DIN 355 0.31mm - 0.7mm 30kgs

DIN 250 0.31mm - 0.7mm 20kgs

DIN 200 0.15mm - 0.7mm 15kgs

DIN 160 0.15mm - 0.7mm 7.5kgs

C15 0.15mm - 0.7mm 1kg

C12 0.15mm - 0.7mm 0.5kg

Metal reels:

760mm 0.7mm-2.95mm 300 kgs

560mm 0.6mm-1.6mm 150kgs

355mm 0.3mm-0.7mm 30kgs

Formers: All wire above 1.2mm can be supplied on formers

Cut lengths:

Size range Length (min - max)

0.9mm - 4mm 500mm - 2.75metres

4mm-6mm 500mm - 4 metres

6mm - 10mm 1 metre - 4 metre