

SW-B

Hard drawn steel wire for springs used in everything between home electronics and furniture (including beds and car seats) to mechanical springs, torsion springs and shutter springs.

NSSG's has used its great technical know-how in Piano Wire for Spring Wire to develop and produce an excellent wire for trustworthy springs.

CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	P max. (%)	S max. (%)
0.49 - 0.56	0.15 - 0.35	0.30 - 0.60	0.030	0.030

MECHANICAL PROPERTIES

Other wire sizes or specifications on request.

Torsion Test (<0.70 mm)

Fracture shall be at right angle of the axis of the wire and be free from cracks, flaws or other defects.

Winding Test (0.07 mm ≤ wire diameter ≤ 6.00 mm)

The wire shall not show any sign of damages or fracture when closely wrapped at least 4 turns around a mandrel of the same diameter as the wire.

Twist pattern shall be even throughout the entire length of the wire without longitudinal cracks, local twists or excessive spiral.

FOR ROUND WIRE

Diameter (mm)	Tolerance (mm)	Tensile Strength (N/mm ²)	Torsions (l=300 mm, min. revs)
0.08 -	±0.006	2450 - 2790	
0.09 -	±0.006	2400 - 2750	
0.10 -	±0.006	2350 - 2700	
0.12 -	±0.008	2300 - 2650	
0.14 -	±0.008	2260 - 2600	
0.16 -	±0.008	2210 - 2550	
0.18 -	±0.008	2210 - 2500	
0.20 -	±0.008	2210 - 2500	
0.23 -	±0.015	2160 - 2450	

SW-B

2/4

0.26 - Diameter (mm)	±0.015 Tolerance (mm)	2110 - 2400 Tensile Strength (N/mm ²)	Torsions (l=300 mm, min. revs)
0.29 -	±0.015	2060 - 2350	
0.32 -	±0.015	2010 - 2300	
0.35 -	±0.015	2010 - 2300	
0.40 -	±0.015	1960 - 2260	
0.45 -	±0.015	1910 - 2210	
0.50 -	±0.015	1910 - 2210	
0.55 -	±0.020	1860 - 2160	
0.60 -	±0.020	1810 - 2110	
0.65 -	±0.020	1810 - 2110	
0.70 -	±0.020	1770 - 2060	20
0.80 -	±0.020	1770 - 2010	20
0.90 -	±0.020	1770 - 2010	20
1.00 -	±0.020	1720 - 1960	20
1.20 -	±0.030	1670 - 1910	20
1.40 -	±0.030	1620 - 1860	20
1.60 -	±0.030	1570 - 1810	20
1.80 -	±0.030	1520 - 1770	20
2.00 -	±0.030	1470 - 1720	20
2.30 -	±0.040	1420 - 1670	15
2.60 -	±0.040	1420 - 1670	15
2.90 -	±0.040	1370 - 1620	15
3.20 -	±0.040	1370 - 1570	15
3.50 -	±0.050	1370 - 1570	15
4.00 -	±0.050	1370 - 1570	10
4.50 -	±0.050	1320 - 1520	10

SW-B

3/4

Diameter (mm)	Tolerance (mm)	Tensile Strength (N/mm ²)	Torsions (l=300 mm, min. revs)
4.50 -	±0.050	1320 - 1520	10
5.00 -	±0.050	1320 - 1520	10
5.50 -	±0.050	1270 - 1470	10
6.00 -	±0.060	1230 - 1420	10
6.50 -	±0.060	1230 - 1420	
7.00 -	±0.060	1180 - 1370	
8.00 -	±0.060	1180 - 1370	
9.00 -	±0.070	1130 - 1320	
10.00 -	±0.070	1130 - 1320	

SURFACE CONDITIONS

SURFACE CONDITION

The surface shall be smooth and uniform free from detrimental scratches and other defects.

STANDARDS

NEAREST EQUIVALENT STANDARDS

EN 10270-1, ASTM A227, JIS G3521

SW-B

ADDITIONAL

ADDITIONAL INFORMATION

Deliver form

Other delivery forms on request.

Wire diameter (mm)	Coil diameter	Wire weight (kg)
0.08-0.09	4 inch	0.5
0.10	4 inch	1.0
0.11-0.16	4 inch	1.5
0.17-0.19	6 inch	2
0.20-0.26	6 inch	5
0.27-0.49	10 inch	15
0.50-0.79	10 inch	30
0.80-1.80	16 inch	70
1.90-3.80	24 inch	140
3.90-10.0	30 inch	140

Wire diameter (mm)	Carrier diameter	Wire weight (kg)
1.00-1.70	16 inch	200
1.80-3.80	24 inch	400
3.90-10.00	30 inch	850