

SW-C

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	2790 - 3140	
0.09 -	±0.006	2750 - 3090	
0.10 -	±0.006	2700 - 3040	
0.12 -	±0.008	2650 - 2990	
0.14 -	±0.008	2600 - 2940	
0.16 -	±0.008	2550 - 2890	
0.18 -	±0.008	2500 - 2840	
0.20 -	±0.008	2500 - 2790	
0.23 -	±0.015	2450 - 2750	

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0.26 - Diameter (mm)	±0.015 Tolerance (mm)	2400 - 2700 Tensile Strength (N/mm ²)	Torsions (l=300 mm, min. revs)
0.29 -	±0.015	2350 - 2650	
0.32 -	±0.015	2300 - 2600	
0.35 -	±0.015	2300 - 2600	
0.40 -	±0.015	2260 - 2550	
0.45 -	±0.015	2210 - 2500	
0.50 -	±0.015	2210 - 2500	
0.55 -	±0.020	2160 - 2450	
0.60 -	±0.020	2110 - 2400	
0.65 -	±0.020	2110 - 2400	
0.70 -	±0.020	2060 - 2350	20
0.80 -	±0.020	2010 - 2300	20
0.90 -	±0.020	2010 - 2260	20
1.00 -	±0.020	1960 - 2210	20
1.20 -	±0.030	1910 - 2160	20
1.40 -	±0.030	1860 - 2110	20
1.60 -	±0.030	1810 - 2060	20
1.80 -	±0.030	1770 - 2010	20
2.00 -	±0.030	1720 - 1960	20
2.30 -	±0.040	1670 - 1910	15
2.60 -	±0.040	1670 - 1910	15
2.90 -	±0.040	1620 - 1860	15
3.20 -	±0.040	1570 - 1810	15
3.50 -	±0.050	1570 - 1770	15
4.00 -	±0.050	1570 - 1770	10
4.50 -	±0.050	1520 - 1720	10

For further technical support, please contact Suzuki Garphyttan or visit www.suzuki-garphyttan.com for more information

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Diameter (mm)	Tolerance (mm)	Tensile Strength (N/mm ²)	Torsions (l=300 mm, min. revs)
4.50 -	±0.050	1520 - 1720	10
5.00 -	±0.050	1520 - 1720	10
5.50 -	±0.050	1470 - 1670	10
6.00 -	±0.060	1420 - 1620	10
6.50 -	±0.060	1420 - 1620	
7.00 -	±0.060	1370 - 1570	
8.00 -	±0.060	1370 - 1570	
9.00 -	±0.070	1320 - 1520	
10.00 -	±0.070	1320 - 1520	

SURFACE CONDITIONS

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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

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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