

Cold drawn SL

The SL wire grade is optimized for applications with low static stress, providing an economical solution with sufficient mechanical strength for various low-stress applications.

Cold-drawn wire is a high-strength material produced through a cold-working process, manufactured in accordance with current international standards, including EN 10270-1, ASTM 228, and JIS G3522 . Our standard wire shape is round, with other shapes like square or rectangular wire also available.

Chemical composition

Element	Weight %
C	0.35% - 1.00%
Si	0.10% - 0.30%
Mn	0.40% - 1.20%
P max.	0.035%
S max.	0.035%
Cu max.	0.20%

Mechanical properties

Diameter (mm)	Tolerance (mm)	Tensile strength (N/mm ²)	Torsions (l=300 mm, min. revs)	Reduct of area (min.%)
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0.95-1.00	±0.015	1720-1970	25	40
1.00-1.05	±0.020	1710-1950	25	40
1.05-1.10	±0.020	1690-1940	25	40
1.10-1.20	±0.020	1670-1910	25	40
1.20-1.25	±0.020	1660-1900	25	40
1.25-1.30	±0.020	1640-1890	25	40
1.30-1.40	±0.020	1620-1860	25	40
1.40-1.50	±0.020	1600-1840	22	40
1.50-1.60	±0.020	1590-1820	22	40
1.60-1.70	±0.020	1570-1800	22	40
1.70-1.80	±0.025	1550-1780	22	40
1.80-1.90	±0.025	1540-1760	22	40
1.90-2.00	±0.025	1520-1750	22	40
2.00-2.10	±0.025	1510-1730	22	40
2.10-2.25	±0.025	1490-1710	22	40
2.25-2.40	±0.025	1470-1690	22	40
2.40-2.50	±0.025	1460-1680	22	40

2.50-2.60	±0.025	1450-1660	22	40
2.60-2.80	±0.030	1420-1640	22	40
2.80-3.00	±0.030	1410-1620	22	40
3.00-3.20	±0.030	1390-1600	22	40
3.20-3.40	±0.030	1370-1580	16	40
3.40-3.60	±0.030	1350-1560	16	40
3.60-3.80	±0.030	1340-1540	16	40
3.80-4.00	±0.030	1320-1520	16	35
4.00-4.25	±0.035	1310-1500	16	35
4.25-4.50	±0.035	1290-1490	12	35
4.50-4.75	±0.035	1270-1470	12	35
4.75-5.00	±0.035	1260-1450	12	35
5.00-5.30	±0.035	1240-1430	11	35
5.30-5.60	±0.040	1230-1420	11	35
5.60-6.00	±0.040	1210-1390	10	35
6.00-6.30	±0.040	1190-1380	9	35
6.30-6.50	±0.040	1180-1370	9	35

6.50-7.00	±0.040	1160-1340		35
7.00-7.50	±0.045	1140-1320		30
7.50-8.00	±0.045	1120-1300		30
8.00-8.50	±0.045	1110-1280		30
8.50-9.00	±0.045	1090-1260		30
9.00-9.50	±0.050	1070-1250		30
9.50-10.00	±0.050	1060-1230		30

Technical specification

Property	Value
E modulus of elasticity	206 kN/mm ²
G modulus of shear	79.5 kN/mm ²

Steel grades and product standards

Nearest equivalent product standards	EN 10270-1
Nearest equivalent steel grades	EN 10270-1 SL