

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.

Sizes range from 0.50mm to 8.00mm, other sizes may be available upon request.

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.%)
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

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