

1. Product description

Galvanized, Arzincal coated wires are used for springs used in static applications.

2. Normative references

- EN 10270-1 Steel wire for mechanical springs - Part 1: Patented cold drawn unalloyed spring steel wire
- ISO 16120-4 Non Alloy Steel Wire Rod For Conversion to Wire
- EN 10244 – 2 - Steel wire and wire products. Non-ferrous metallic coatings on steel wire. Zinc or zinc alloy coatings
- EN 10218-2 - Steel wire and wire products-General-Part 2: Wire dimensions and tolerances

3. Mechanical Properties

Nitrogen wiping (Galvanized + Arzincal);

Diameter (mm)	Tolerans (mm)	SL (Mpa)	SM (Mpa)	Coating	Min. Reduction of area	Min. Torsion
2,10	± 0,025	1510-1730	-	145-366	40%	22
2,25		1490-1710	-			
2,40		1470-1690	-			
2,50		1460-1680	-			
2,60		1450-1660	1670-1880			
2,80	± 0,030	1420-1640	1650-1850	185-366		16
3,00		1410-1620	1630-1830	195-366		
3,20		1390-1600	-			
3,40		1370-1580	-			
3,60		1350-1560	-			
3,80		1340-1540	1550-1740			
4,00		1320-1520	1530-1730			

Pad wiping;

Diameter (mm)	Tolerans (mm)	SL (Mpa)	SM (Mpa)	Coating	Min. Reduction of area	Min. Torsion	
2,10	± 0,025	1510-1730	-	50	40%	22	
2,25		1490-1710	-				
2,40		1470-1690	-				
2,50		1460-1680	-				
2,60		1450-1660	1670-1880				
2,80	± 0,030	1420-1640	1650-1850	50		40%	22
3,00		1410-1620	1630-1830	50			
3,20		1390-1600	-				
3,40		1370-1580	-				
3,60		1350-1560	-				
3,80		1340-1540	1550-1740				
4,00		1320-1520	1530-1730				

4. Chemical Properties

Chemical properties of the raw material used in spring wire production according to EN 10270-1 standard are given in the table.

	(C)	(Mn)	(Si)	(P)	(S)	(Cu)
min.	0,35	0,40	0,10	-	-	-
max.	1,00	1,20	0,30	0,035	0,035	0,20

5. Inspection Document

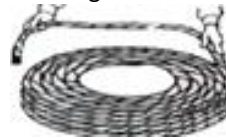
Inspection document 3.1 – EN 10204 on request.

6. Packaging Forms

Package dimensions for rosetten coils

Inner Diameter	Outer Diameter	Weight
33 cm	57 cm	250 kg
45 cm	75 cm	500-750 kg
50 cm	90 cm	750-900 kg
55 cm	105 cm	1000-1250 kg

Winding: Anti-clockwise



Unwinding: Clockwise

With Lifting Hooks
Metal Strapped
PE Shrunk