

Galvanized Wire Technical Data Sheet

1. General characteristics

Wire Rod: Non-alloy low carbon steel

Wire Diameter: 1,40 mm – 7,80 mm

Tensile Strength: Soft and Hard

Coating: Hot dip galvanized

Package: Rosette coil

Coil weight: 250 – 1750 kg

2. Normative references

EN ISO 16120-1 - Non-alloy steel wire rod for conversion to wire -Part 1: General requirements

EN ISO 16120-2 - Non-alloy steel wire rod for conversion to wire - Part 2: Specific requirements for general purpose wire rod

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

The table of tensile strength according to the diameter is given below.

Diameter (mm)	Tensile Strength (N/mm ²)				
	400-500	-	-	-	700-850
$1,40 \leq d \leq 2,00$	400-500	-	-	-	700-850
$2,00 < d \leq 2,50$	400-500	400-550	500-650	600-750	700-850
$2,50 < d \leq 3,00$	400-500	400-550	500-650	600-750	700-850
$3,00 < d \leq 4,00$	400-500	400-550	500-650	600-750	700-850
$4,00 < d \leq 6,00$	-	400-550	500-650	600-750	-
$6,00 < d \leq 7,80$	-	-	500-650	600-750	-

** Non-standard tensile strengths should be requested.

The table of Coating mass according to diameter is given below.

Diameter (mm)	Coating mass (gr/m ²)			
	A	AB	B	C
$1,40 \leq d < 1,65$	195	135	100	50
$1,65 \leq d < 1,85$	205	145	100	50
$1,85 \leq d < 2,15$	215	155	115	50
$2,15 \leq d < 2,50$	230	170	125	50
$2,50 \leq d < 2,80$	245	185	125	50
$2,80 \leq d < 3,20$	255	195	135	50
$3,20 \leq d < 3,80$	265	210	135	50
$3,80 \leq d < 4,40$	275	220	135	50

$4,40 \leq d < 5,20$	280	220	150	50
$5,20 \leq d < 7,80$	290	-	-	50

** Special coating mass must be requested.

Diameter tolerances;

Diameter (mm)	Pad Wiping (Low coating mass)		
0,80-3,99	(+)0,06	(-)0,06	(+/-)0,03
4,00-8,00	(+)0,08	(-)0,08	(+/-)0,04

Diameter (mm)	Nozzle Wiping (High coating mass)		
0,80-1,99	(+)0,06	(-)0,06	(+/-)0,03
2,00-8,00	(+)0,08	(-)0,08	(+/-)0,04

** Special diameter tolerances must be requested.

Package dimensions for rosetten coils;

Wire Diameter (mm)	Weight according to package size (ID/OD)(mm)			
	450/750	500/900	600/1000	600/1400
$1,40 \leq d < 2,00$	250-500 kg	-	-	-
$2,00 \leq d < 3,00$	500 kg	500-750 kg	-	-
$3,00 \leq d < 4,00$	500 kg	500-750 kg	-	-
$4,00 \leq d < 5,00$	500 kg	500-750 kg	1250 kg	1750 kg
$5,00 \leq d < 7,80$	-	500-750 kg	1250 kg	1750 kg

The winding direction of the coils is anti-clockwise. The coils is tied by 4 steel straps. Packaging is made with or without shrink. Maximum helix of 50 mm.

ID: inner diameter, OD:outer diameter

4. Raw Material

The chemical analysis of the raw materials supplied according to the EN ISO 16120-1 standard is given in the table below.

Steel grade	C %	Mn %	Si %	P %	S %
C7D	0,05-0,09	0,30-0,60	max. 0,30	max. 0,035	max. 0,035
C9D	max. 0,10	max. 0,90	max. 0,30	max. 0,035	max. 0,035

5. Inspection document

Inspection document 3.1 – EN 10204 on request.