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1. Product description

This technical datasheet specifies properties for phosphated wire, black wire and annealed wire on coil.

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 10218-2 - Steel wire and wire products-General-Part 2: Wire dimensions and tolerances

3. Mechanical Properties

Steel wires;

Diameter	Tolerance	Tensile Strength	Coating	
1,00 – 7,60 mm	-0,04 mm	Hard	Phosphated	Uncoated
2,00 - 4,00 mm	-0,04 mm	High Carbon	Phosphated	Uncoated

Annealed wires;

Diameter	Tolerance	Tensile Strength	Elongation	Coating		
1,00 – 7,60 mm	-0,04 mm	320 - 380 N/mm ²	% 25 - 35	Phosphated	Oiled	Uncoated

4. Coating Properties

Phosphate coating

We make zinc phosphate coating ve phosphate coating is used on steel parts for corrosion resistance, lubrication, or as a foundation for subsequent coatings or painting.

Oil coating

The lubrication process is carried out according to the requirements of our customers.

4. Chemical Properties

The chemical properties of the supplied raw materials according to ISO 16120-2 are given in the table.

Quality	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
C15D	0,12-0,17	0,30-0,60	max. 0,30	max. 0,035	max. 0,035
C18D	0,18-0,23	0,30-0,60	max. 0,30	max. 0,035	max. 0,035
C42D	0,40-0,45	0,50-0,80	0,10-0,30	max. 0,030	max. 0,030
C76D	0,73-0,78	0,50-0,80	0,10-0,30	max. 0,030	max. 0,030
C82D	0,80-0,85	0,50-0,80	0,10-0,30	max. 0,030	max. 0,030

5. Inspection Document

Inspection document 3.1 – EN 10204 on request.

6. Packaging Forms

Package dimensions for rosetten coils;

Wire Diameter (mm)	Package Weight (kg)	Block Diameter (cm)	Inner Diameter (cm)	Outer Diameter (cm)
$1,00 \leq d < 7,60$	500 - 750 - 900	60	45	75



Winding: Anti-clockwise

Unwinding: Clockwise

Package dimensions for spool coils;

Wire Diameter (mm)	Package Weight (kg)	Inner Diameter (cm)	Outer Diameter (cm)	Height (cm)	Spools
$3,00 \leq d \leq 7,60$	max. 2500	63	Max. 115	75	Without
$1,00 \leq d \leq 3,00$	max. 400	25	63	45	With iron spools