

Zip-Wire binding spirals Product data sheet

Product description

Zip-wire binding spirals are used to bind calendars, notebooks, catalogues and other printed materials. Zip-Wire spirals are manufactured in our company on ProLoop forming machines. Zip-Wire spirals are made of:

- 1) low carbon steel wire coated with PA-6 polyamide in different colours.
- 2) low carbon zinc coated steel wire coated with PA-6 polyamide in different colours.

Available diameters and pitches

Zip-Wire spirals are available in the following diameters and pitches.

Zip-Wire diameter [inch]	Zip-Wire diameter [mm]	Maximum binding thickness [mm]	Pitch	No. of loops on a spool
3/16"	4,8	3,2	3:1	132 000
1/4"	6,4	4,8	3:1	91 000
5/16"	7,9	6,4	3:1	64 000
3/8"	9,5	7,9	3:1	45 000
7/16"	11,1	9,5	3:1	32 000
1/2"	12,7	11,1	3:1	25 000
9/16"	14,3	12,7	3:1	21 000
5/8"	15,9	14,3	2:1	12 000
3/4"	19,0	17,4	2:1	8 000
7/8"	22,2	20,6	2:1	6 000
1"	25,4	23,8	2:1	4 500
5/4"	31,8	29,9	2:1	2 700

Available colours:

Zip-Wire spirals are available in the following colours:

Colour	Colour name	RAL colour	Pantone colour
	white	9003	
	black	9005	
	silver metallic	zinc wire	zinc wire
	light blue	5015	2174C
	blue	5005	661C
	yellow	1016	101C
	orange	2010	7578C
	red	3031 (new shade)	187C (new shade)
	pink	3015	203C
	light green	6032	348C
	dark green	6005	343C
	golden	1036	874C
	brown	8016	7596C

Packaging

Zip-wire spirals are available in the following forms suitable for different applications:

- Zip-Wire wound on spools recommended for automatic and semi-automatic binding machines,
- Zip-Wire cut into sections of required number of loops for manual binding,
- Zip-Wire cut into sections counting 34 loops (A4 size, 297 mm, pitch 3:1) or 23 loops (A4 size, 297 mm, pitch 2:1) packed into office boxes counting 100 sections.

Steel wire rod technical data

Steel wire rod used to manufacture Zip-Wire spirals has the following chemical composition.

C	Mn	Si	P	S	Cu	Cr	Al
0,0300%	0,0320%	0,0350%	0,1100%	0,0120%	0,0400%	0,0400%	0,0030%

In case of zinc coated wire rod the quantity of zinc used is 20-45 g/m².

Steel wire rod has the following mechanical characteristics:

Steel wire rod diameter	Diameter tolerance	Wire type	Wire hardness
0,63	±0,01mm	bright/galvanised	Rm 750-850 N/mm ²
0,73	±0,01mm	bright/galvanised	Rm 725-825 N/mm ²
0,83	±0,01mm	bright/galvanised	Rm 700-800 N/mm ²
0,93	±0,01mm	bright/galvanised	Rm 650-750 N/mm ²
1,10	±0,01mm	bright/galvanised	Rm 600-700 N/mm ²

Coating technical data

PA-6 polyamide used for steel wire coating is unfilled nylon 6 (Polyamide 6) compound. The hazardous components are not present in sufficient concentration for the product to require classification under EC Directive 1999/45/EC and subsequent amendments.

The colour pigments used with PA-6 polyamide comply with the EEC Packaging Directive 94/62/EU of 20 December 1994, amended by Regulation (EU) 2015/720 from April 29th 2015, limits the total content of lead, cadmium, mercury and chromium (VI) in packaging and packaging waste.

The colour pigments used do not contain pigments, additives or polymers on basis of lead, cadmium, mercury and chromium (VI).

Safety data sheets for PA-6 polyamide and colour masterbatches are attached to the product data sheet.

Handling and storing

- 1) Zip-Wire spirals should be handled with care to avoid product damage.
- 2) Product must be stored in a dry environment. Moisture will damage the product casing rusting and coating damage.
- 3) Storing temperatures: form 5°C up to 35°C.

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