

# MIKROLIN HUNGARY KFT

H-2800 Tatabánya, Búzavirág u. 7.

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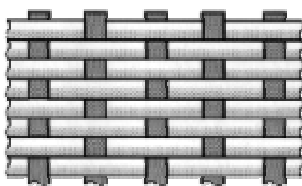
## Metal clothes

### APPLICATIONS

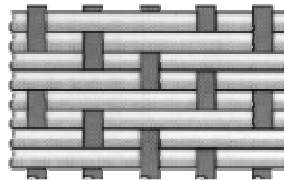
The main purpose of the metal filtering cloths is filtering liquids and recylation of plastics (Chemical and Rubber industry), production of filters (Automotive and Aircraft industry).

### CONSTRUCTION

The metal filtering cloths are produced by weaving method „wire on wire“. The warp wires have a greater diameter than the weft wires. Basic parameter of filter cloths are permeability or number of meshes on 1 English inch (25,4 mm).



*Plain weave - L 1/1*



*Twill weave - K 2/2*



Table 1

### METAL FILTERING CLOTHS DETERMINED BY NUMBER OF WIRE ON 1 ENGL.INCH

Number of wires on 1 Engl.inch	Wire diameter (mm)		Informative weight (kg/m <sup>2</sup> )	Weave	Material	
	Warp	Weft			Steel	Stainless steel
50x250	0,140	0,112	0,997	L1/1		x
40x200	0,180	0,140	1,263	L1/1	x	x
30x150	0,230	0,180	1,630	L1/1	x	x
25x130	0,280	0,220	2,002	L1/1	x	x
25,5x120	0,300	0,240	2,227	L1/1	x	x
24x110	0,350	0,250	2,500	L1/1	x	x
14x88	0,500	0,330	3,174	L1/1	x	x
12x64	0,600	0,400	3,809	L1/1	x	x

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Table 2								
METAL FILTERING CLOTHS DETERMINED BY PERMEABILITY								
Permeability ( $\mu\text{m}$ )	Wire diameter (mm)		Informative weight ( $\text{kg}/\text{m}^2$ )		Weave	Material		
	Warp	Weft	Steel	Bronze		Steel	Stainless steel	Bronze
12,5	0,036	0,032	0,496	0,556	K2/2		x	x
16	0,045	0,032	0,304	0,341	L1/1, K2/2		x	x
20	0,056	0,040	0,385	0,432	L1/1, K2/2		x	x
25	0,071	0,050	0,482	0,540	L1/1, K2/2		x	x
31,5	0,090	0,063	0,621	0,696	L1/1, K2/2		x	x
40	0,112	0,080	0,774	0,868	L1/1, K2/2		x	x
50	0,140	0,100	0,951	1,065	L1/1, K2/2		x	x
63	0,180	0,125	1,186	1,330	L1/1, K2/2	x	x	x
80	0,224	0,160	1,538	1,725	L1/1, K2/2	x	x	x
100	0,280	0,200	1,914	2,145	L1/1, K2/2	x	x	x
125	0,355	0,250	2,418	2,711	L1/1, K2/2	x	x	x
160	0,450	0,315	3,075	3,446	L1/1, K2/2	x	x	x
200	0,560	0,400	3,965	4,445	L1/1, K2/2	x	x	x
250	0,710	0,500	4,788	5,368	L1/1, K2/2	x	x	x

*The weights in the table above are valid for cloths in plain weave.*

#### **THE WIDTH AND LENGTH OF THE ROLL**

The usual cloth roll width is 1000 mm. The other dimension are available upon request, but up to 2000 mm as maximum. The length of roll is 25 m or 30,5 m.

#### **THE METHOD OF ORDERING**

The order, beside other appurtenance, has to contain the following parameters, defining the product in details:

- the cloth name
- material
- permeability or the number of wires on 1 Engl.inch (mesh)
- warp and weft wire diameter
- quantity, length and width of roll
- other requirements and the type of weaving

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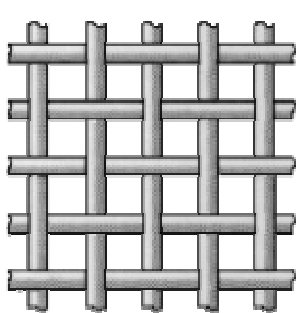


## METAL CLOTH WITH SQUARED MESHES

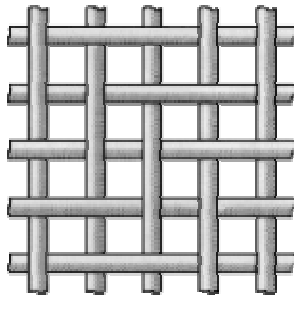
### APPLICATIONS

- Sorting sieves.
- Production of filters (Automotive and Aircraft industry).
- Production of gaskets and insulating boards (Automotive industry).
- Plastic recycling (Chemical and Rubber industry).

### CONSTRUCTION



Plain weave - L 1/1



Twill weave - K 2/2

*d* - wire diameter  
*w* - The dimensions of mesh

MATERIAL		WIRE	WIRE DIAMETER RANGE (mm)
NOT ALLOYED STEEL	Class nr. 11	Naked	0,120 - 3,150
		Zinc coated	0,200 - 3,150
		Tin coated	0,200 - 3,150
SPECIAL ALLOYED STEEL	DIN 1.4306, etc.		0,032 - 2,500
NONFERROUS METALS	Copper Cu99, 9E		0,090 - 2,000
	Brass CuZn37		0,090 - 2,000
	Bronze CuSn6		0,032 - 2,000

### THE WIDTH AND LENGTH OF THE ROLL

The usual cloth roll width is 1000 mm. Upon request other dimension can be delivered, but up to 1800 mm as maximum. The roll length is 25 or 30,5 m.

### THE METHOD OF ORDERING

The order, besides other appurtenances has to contain the following parameters, defining the products in detail:

- the cloth name
- the material
- the dimension of the mesh, wire diameter in mm
- the roll length (m) and width (mm), the quantity - the weave kind

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THE PRINCIPAL DIMENSION SET ("R20") FOR METAL CLOTHS WITH SQUARED MESHES									
Wire diameter (mm)	The dimensions of mesh (mm)								
	Open area (%)								
	30,9	37,9	44,4	51,0	57,6	64,0	69,4	74,5	79,0
0,032	0,040	0,050	0,063	0,080					
0,036	0,045	0,056	0,071	0,090					
0,040	0,050	0,063	0,080	0,100					
0,045	0,056	0,071	0,090	0,112					
0,050	0,063	0,080	0,100	0,125					
0,056	0,071	0,080	0,112	0,140					
0,063	0,080	0,100	0,125	0,160					
0,071	0,090	0,112	0,140	0,180	0,224	0,280			
0,080	0,100	0,125	0,160	0,200	0,250	0,315			
0,090	0,112	0,140	0,180	0,224	0,280	0,355			
0,100	0,125	0,160	0,200	0,250	0,315	0,400			
0,112	0,140	0,180	0,224	0,280	0,355	0,450			
0,125	0,160	0,200	0,250	0,315	0,400	0,500			
0,140	0,180	0,224	0,280	0,355	0,450	0,560			
0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
0,180	0,224	0,280	0,355	0,450	0,560	0,710	0,900	1,120	1,400
0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600
0,224	0,280	0,355	0,450	0,560	0,710	0,900	1,120	1,400	1,800
0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	2,000
0,280	0,355	0,450	0,560	0,710	0,900	1,120	1,400	1,800	2,240
0,315	0,400	0,500	0,630	0,800	1,000	1,250	1,600	2,000	2,500
0,355	0,450	0,560	0,710	0,900	1,120	1,400	1,800	2,240	2,800
0,400	0,500	0,630	0,800	1,000	1,250	1,600	2,000	2,500	3,150
0,450	0,560	0,710	0,900	1,120	1,400	1,800	2,240	2,800	3,550
0,500	0,630	0,800	1,000	1,250	1,600	2,000	2,500	3,150	4,000
0,560	0,710	0,900	1,120	1,400	1,800	2,240	2,800	3,550	4,500
0,630	0,800	1,000	1,250	1,600	2,000	2,500	3,150	4,000	5,000
0,710	0,900	1,120	1,400	1,800	2,240	2,800	3,550	4,500	5,600
0,800	1,000	1,250	1,600	2,000	2,500	3,150	4,000	5,000	6,300
0,900	1,120	1,400	1,800	2,240	2,800	3,550	4,500	5,600	7,100
1,000	1,250	1,600	2,000	2,500	3,150	4,000	5,000	6,300	8,000
1,120	1,400	1,800	2,240	2,800	3,550	4,500	5,600	7,100	9,000
1,250	1,600	2,000	2,500	3,150	4,000	5,000	6,300	8,000	10,000
1,400	1,800	2,240	2,800	3,550	4,500	5,600	7,100	9,000	11,200
1,600	2,000	2,500	3,150	4,000	5,000	6,300	8,000	10,000	12,500
1,800	2,240	2,800	3,550	4,500	5,600	7,100	9,000	11,200	14,000
2,000	2,500	3,150	4,000	5,000	6,300	8,000	10,000	12,500	16,000
2,240	2,800	3,550	4,500	5,600	7,100	9,000	11,200	14,000	18,000
2,500	3,150	4,000	5,000	6,300	8,000	10,000	12,500	16,000	20,000
2,800	3,550	4,500	5,600	7,100	9,000	11,200	14,000	18,000	22,400
3,150	4,000	5,000	6,300	8,000	10,000	12,500	16,000	20,000	25,000

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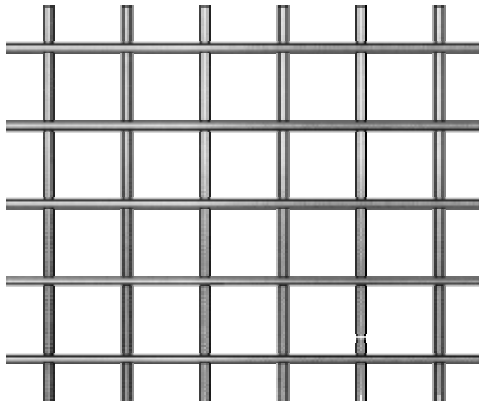


## WELDED NETS

### APPLICATIONS

Production of insulating material (insulating foil Flexipan), production of baskets for fritting, building industries (under plaster).

### CONSTRUCTION



*d* - Wire diameter  
*t* - Mesh spacing

Table 1	
1. MATERIAL: STEEL - BRIGHT ANNEALED	
Wire diameter (mm)	Mesh spacing (mm)
0,500 - 0,750	6,250 x 6,250
0,500 - 0,750	8,000 x 8,000
0,500 - 0,750	8,000 x 16,000
0,500 - 0,750	12,500 x 12,500
0,500 - 0,750	12,500 x 25,000
0,500 - 0,900	25,000 x 25,000
0,500 - 0,900	25,000 x 50,000
0,500 - 0,600	25,000 x 50,000

Table 2	
2. MATERIAL: STAINLESS STEEL	
Wire diameter (mm)	Mesh spacing (mm)
0,500 - 0,600	6,250 x 6,250
0,500 - 0,600	8,000 x 8,000
0,500 - 0,600	8,000 x 16,000
0,500 - 0,600	12,500 x 12,500
0,500 - 0,600	12,500 x 25,000

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Table 3	
3. MATERIAL: GALVANIZED STEEL	
<i>Wire diameter (mm)</i>	<i>Mesh spacing (mm)</i>
0,500 - 0,630	12,500 x 12,500
0,500 - 0,630	12,500 x 25,000
0,500 - 0,630	25,000 x 25,000
0,500 - 0,630	25,000 x 50,000

Table 4	
4. MATERIAL: COPPER-COATED STEEL	
<i>Wire diameter (mm)</i>	<i>Mesh spacing (mm)</i>
0,500 - 0,750	6,250 x 6,250
0,500 - 0,750	8,000 x 8,000
0,500 - 0,750	8,000 x 16,000
0,500 - 0,750	12,500 x 12,500
0,500 - 0,750	12,500 x 25,000
0,500 - 0,900	25,000 x 25,000
0,500 - 0,900	25,000 x 50,000

#### THE WIDTH AND LENGTH OF THE ROLL

The cloth width is 250 – 1600 mm (2250 mm – limited capacity of production). Length of roll is 50 – 200 m. Technical parameter (width, length, strength of weld etc.) requirements, please, discuss with us.

#### THE METHOD OF ORDERING

The order, beside other appurtenance, has to contain the following parameters, defining the product in details:

- the name of cloth
- material
- the dimension of the mesh, the diameter of the wire
- quantity, the length and the width
- the other requirements (e.g. the way of packaging)

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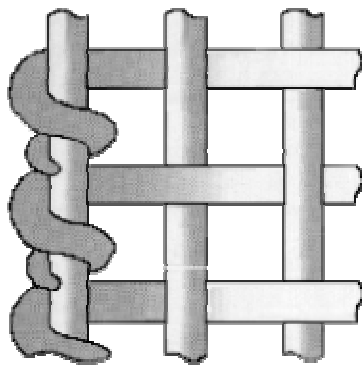
## RABITZ WIRE MESH

### APPLICATIONS

Building industry.

### CONSTRUCTION

These cloths are produced in plain weave, material steel (class 11) with square or rectangular meshes. Edgings of cloth are turn. The most commonly ordered dimensions are given in the following Table 1.



*d* - Wire diameter  
*w* - Mesh dimension

Table 1			
STANDARD PRODUCTION LINE			
Mesh dimension (mm)	Wire diameter (mm)		Informative weight (kg/m <sup>2</sup> )
	Warp	Weft	
16 x 16	0,800	0,800	0,490
10 x 20	0,800	0,800	0,590
20 x 20	0,800	0,800	0,420

### THE WIDTH AND LENGTH OF THE ROLL

The cloth width is 1000 mm. The roll length is 50 m or 25 m.

### THE METHOD OF ORDERING

The order, besides other appurtenances has to contain the following parameters, defining the products in detail:

- the cloth name
- the material
- the dimension of the mesh, wire diameter in mm
- the roll length and width, the quantity

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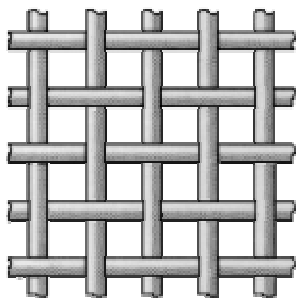
## ANTI-INSECT WIRE NET

### APPLICATIONS

Screen against pest and insect in Agriculture and Households.

### THE DESIGN OF THE CLOTH

Anti-insect wire net are manufactured in plain weave L 1/1 only.



*d - wire diameter*  
*w - dimension of the mesh*



Table 1

1. ANTI-INSECT WIRE NET - ALUMINIUM	
Material:	AlMg5
Wire diameter:	0,240 mm
Aperture size:	1,200 x 1,600 mm
Mesh:	18 x 14
The width of the roll:	1 000 mm
The length of the roll:	30,5 m
The way of packaging:	Every roll is packaged in boxboard

Table 2

2. ANTI-INSECT WIRE NET - GALVANIZED	
Material:	Steel 11 300 - galvanized
Wire diameter:	0,250 mm
Aperture size:	1,600 mm
The width of the roll:	1 000 mm , 1 200 mm
The length of the roll:	25 m
The way of packaging:	- packaged in boxboard - unpacked



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Table 3	
3. ANTI-INSECT WIRE NET - LACQUERED (GREEN)	
Material:	Steel 11 300 - lacquered
Wire diameter:	0,250 mm
Aperture size:	1,600 mm
The width of the roll:	1 000 mm
The length of the roll:	25 m
The way of packaging:	- packaged in boxboard
	- unpacked

## THE METHOD OF ORDERING

- the cloth name
- material
- dimension of the mesh, wire diameter
- quantity, the length and width of the roll
- other requirements (e.g. the way of packaging)

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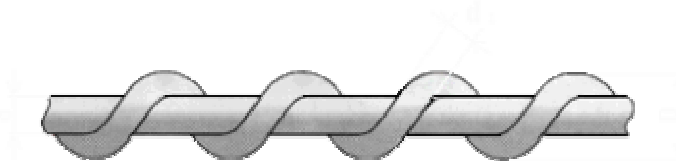


## SEALING ROPES

### APPLICATIONS

Placed for Post offices, Banks, Custom-houses, Gasworks, Electricians etc.

### CONSTRUCTION



*D - Nominal diameter  
d - Diameter of the  
central wire  
d<sub>1</sub> - Diameter of the  
circumference*

Table 1			
Nominal diameter			Informative weight 1 000 m (kg)
D (mm)	d (mm)	d <sub>1</sub> (mm)	
0,900	0,400	0,250	1,630
1,100	0,500	0,315	2,750

### MATERIAL

Zinc coated steel wire of circular section.

### VERSION

- in coils (the weight of coil is from 2 to 2,5 kg)
- in packets, cut on 300 mm (the weight of packet is from 2 to 2,5 kg)

### THE METHOD OF ORDERING

The order, besides other appurtenances, has to contain the following parameters defining the product in details:

- the product name
- the nominal diameter (D)
- version
- the quantity in kg

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## EXTRUSION DISCS (CYLINDRIC,LINED), PRESSWORK

### APPLICATIONS

Extrusion discs are used as simple filters e.g. water (components of armature), oils, emulsions etc.



### CONSTRUCTION

Cylindric filters are made:

- one-layer -from one type of cloth
- multi-layer -from more types of cloths
- with subsidiary layer from perforated metal plate -usually inner layer from cloth, outer from perforated metal plate.

### THE METHOD OF ORDERING

For this type of product is necessary graphical documentation including:

- dimension of filters (diameter, height), tolerance
- design (one-layer, multi-layer, with perforated plate)
- type of used metal cloths, perforated plate)
- material of cloth, perforated plate
- in multi-layer extrusion disc way design of connection (dotted or continuously weld)
- quantity (pc)
- other requirements (way of packaging etc.)

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## CUTTINGS (CIRCULAR,SQUARE-SHAPED,RECTANGLE)

### APPLICATIONS

Cuttings (circular,square-shaped,rectangle) can be used to filtration e.g. at production or recycling of plastics (extruders). Among others are used as simple filters in the chemical and rubber industry, at filtration of water etc. Extrusion discs have a great potential of application according to your specific needs.

### CONSTRUCTION

Circular or rectangle cutts are simple filters from metal cloth with square-meshed wire cloth or filters cloths in one- or multi-layer version. In multi-layer version the single layers are spot welded. Concrete technical requirements for multi-layer filters etc. we suggest to discuss with our technologist.

#### 1. CIRCULAR

We can manufacture the round extruders from all types of metal cloth and materials according to our production [assortment](#). Based on your requests we can supply you with round extruders (also with internal holes) in range from 14,5 mm to 570 mm.

#### 2. SQUARE-SHAPED AND RECTANGLE

Rectangle or square-shaped extrusion discs can be manufactured from all types of metal cloth and materials according to our [products](#) and in dimension according to your needs.

### THE METHOD OF ORDERING

- Type of the extrusion disc (circular, rectangle or square-shaped)
- The dimension of the extrusion disc (diameter etc.)
- Version (one-layer or multi-layer)
- Type of metal cloth
- Material

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## WIRES

### APPLICATIONS

Wires for wire mesh weaving, binding wires (Hop-plants), florist's wires.

Table 1				
MATERIAL - STEEL				
Wire diameter (mm)	Surface		Package	
	Light annealed	Black annealed	In coils	On spools
0,130	x		x	x
0,140	x		x	x
0,160	x		x	x
0,180	x		x	x
0,200	x		x	x
0,224	x		x	x
0,250	x		x	x
0,280	x		x	x
0,315	x		x	x
0,355	x		x	x
0,400	x		x	x
0,450	x		x	x
0,500	x		x	x
0,560	x		x	x
0,630	x		x	x
0,710	x	x	x	x
0,800	x	x	x	x
0,900	x	x	x	x
1,000	x	x	x	x
1,120	x	x	x	
1,250	x	x	x	
1,400		x	x	
1,600		x	x	
1,800		x	x	
2,000		x	x	
2,240		x	x	
2,500		x	x	

We can supply drawing wires from brass (CuZn20, CuZn37) and copper (Cu 99,9E) in diameter of wire from 0,09 to 2,00 mm and from bronze (CuSn6,CuSn8) in diameter of wire from 0,032 to 2,00 mm.

### THE METHOD OF ORDERING

- wire diameter in mm
- material
- surface
- the version
- the quantity in kg
- other requirements (e.g. weight of coil, type of spool, the way of packaging)

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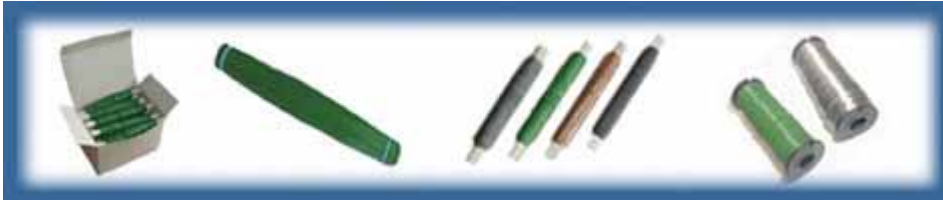
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## FLORAL WIRES

### APPLICATIONS

Gardening, florists - binding of flowers, wreaths, arranging, desing, art production.



### MATERIAL

Floral wire are producing from following materials:

- steel nr.11, blank wire - light or black annealed
- steel nr.11, color varnished wire (green)
- steel nr.11, copper wire
- steel nr.11, zinc - coated wire

#### 1. WONEDED ON WOODEN STICKS

Length approx.135 mm, weight of one piece with wire is approx.100 gramms (averages 0,35 - 0,68 mm).

- in bulk in cartons
- packing og 1 kgs or 2,5 kg box, stored in 10 kg cartons

#### 2. WONEDED ON SPOOLS

Color varnished wire on metal 18 - 20 kg spools B60 only, other wires on plastic spools DIN 250 (approx 20 kg) or small plastic spools with average 28 mm and length 72 mm (averages 0,35 - 1,00 mm).

#### 3. CUT IN BUNDLES

Length of wire 400 mm in bundle approx.2 kg (averages 0,35 - 1,00 mm).

- packing in paper box

#### 4. IN COILS

Light or black annealed only, weight of coil 30 - 50 kg (averages 0,71 - 1,60 mm).

### THE METHOD OF ORDERING

The order, besides other appurtenances has to contain the following parameters, defining the products in detail:

- wire diameter
- material
- surface

## OTHER PRODUCTS

# MIKROLIN HUNGARY KFT

H-2800 Tatabánya, Búzavirág u. 7.

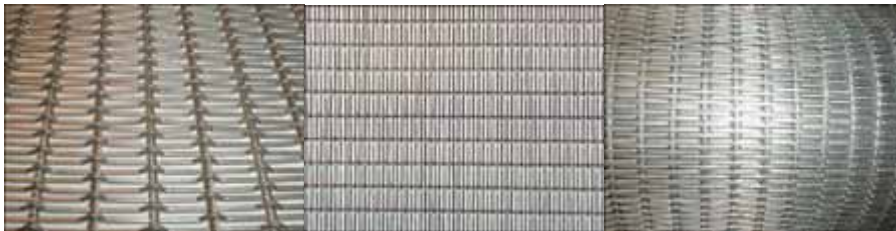
[www.mikrolin.hu](http://www.mikrolin.hu)

Phone: +36 34 316655 Fax: +36 34 316823



## METAL CLOTH FOR SLOTTED SIEVES

Is put together by a warp set of galvanized, alternately counter-directional right and left steel wire ropes (2,0 mm and 2,5 mm in diameters), to which a weft set of galvanized steel wires is mounted at a right angle (1,6 mm in diameter).



## STICK CLOTHS

Is a rectangle-meshed metal cloths formed by a crossing set of wire ropes (steel rope 1,00 mm in diameter) with a set of wires at a right angle (galvanized wire).



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## CONVEYER BELTS

Are a wire netting compound of individual worms of circular shape, which can be joined to an endless belt. They are made of stainless steel wire 0,71 mm and 1,00 mm in diameters. The maximum belt length is 16 m and maximum width 1,5 m.



## CONTINUOUS WIRE ROPE BELTS

Are composed of longitudinally arranged galvanized steel wire ropes, which are crosswise tied with a crapy steel tape. The steel wire rope is made of one spiralwise wound piece. The crapy steel tapes are folded over edges round the marginal wire strand. The rope ends are soldered to the continuous rope belt edges with tin. The belt length and width should be agreed on in advance.





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## WIRE BASKETS

Wire kitchen varnished (white, black or other colours according to agreement) baskets are manufactured in shape of ellipse (size 270 x 160 mm; height 80 mm) or circle (190 mm in diameter; height 80 mm). The baskets are water resistant and fit for foodstuff. Application up to temperature 120 °C.

