



# MICROMESH TECHNOLOGIES

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# About Company

**“MicroMesh Technologies”** is a dynamically developing company, aimed at the creation and implementation of innovative technologies in a wide range of products with the use of mesh of small and extra-small cell size.

The company occupies a unique position in the Russian market of micromeshing technologies. In fact, our company is the only manufacturer of certain products in Russia.



Our company's staff has a high level of technological knowledge. This allows us to move forward constantly, introducing new products, as well as to fully satisfy the most demanding requests of our clients.

**Our mission: "We make the new useful products that help our clients to achieve the best results!"**

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# Expanded Mesh

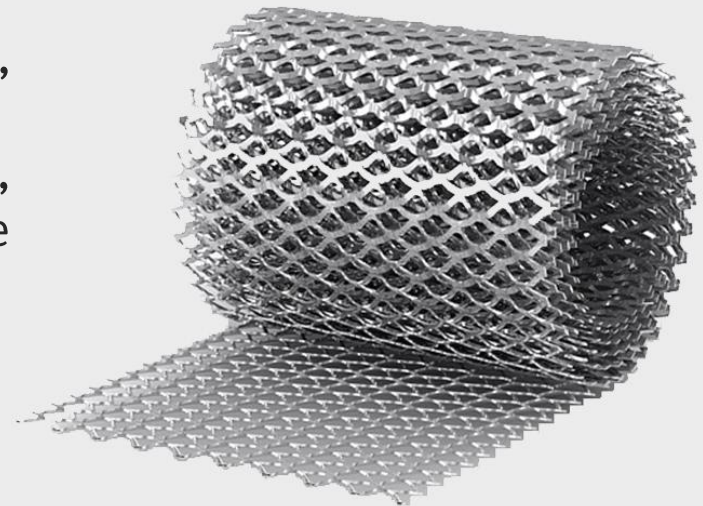
**Expanded Mesh (EM)** is made of metal sheet (galvanized and non-galvanized) or stainless steel sheet. The process of **EM** manufacturing is as follows: the metal sheet is cut and stretched on the special equipment into the diamond-shaped cells in chessboard order. The metal thickness can vary from 0,2 mm to 0,8 mm.

Our **Expanded Mesh (EM)** differs from the manufacturers of the similar product by the micro-size cells. We produce the mesh with the diameter of the inscribed circle up from 0,59 mm (bridge width: 0,2 mm).

**Expanded Mesh (EM)** has no stitches or joints, thus, its structure is more durable.

Expanded metal mesh has sufficient hardness, beautiful appearance, it is light and permeable for air.

Expanded metal mesh comes in rolls or maps.



# Molding Filters

Our company is able to design and manufacture **metallurgical** and **casting filters** for your industry on the basis of your technical conditions and characteristics.

In relation to expensive **foam and ceramic, mesh and ceramic, refractory (fireclay)** and other filters, our products **have such advantages as:**

- cheaper prices and a high quality of filtration;
- ability to use the technologies of **direct casting** upon a filter;
- reduction of waste and cost for **mechanical processing** of **castings**(i.e. for processing tool);
- smaller **energy expenses for metal heating** in comparison with other types of filters;
- high degree of **chemical filtration** (without harmful components containing materials of the filter, affecting negatively to the process of finishing of the casting operations, and in the process of re-melting);
- high passing capacity of the filter and the casting speed;
- filters help **to reduce general production expenses** and, at the same time improve **the quality of the final product.**



# Mesh Filter



Mesh Filters can be produced from a large number of metallic and non-metallic materials, which can be processed into threads. The filters form can be of various kinds, including rolls, round and rectangular, hollow (tubular) and solid, pressed and low density.

If necessary, the material of manufactured filters can be a huge list of metals and alloys, plastic and ceramic fibers, and all the diversity of their joints used to achieve the necessary characteristics, such as high temperature resistance exceeding 1,000 degrees Celsius, corrosion resistance and other parameters. Used in various industries. E.g., our company produces mesh filters for **car foam washing machines** (filter gauze).

# Knitted Wire Mesh

**Knitted Wire Mesh** (Sleeve Mesh, SM, SM (corrugated), Dacron Sleeve Mesh) is mainly made of stainless steel wire AISI 321 and 304. But also it can be manufactured out of wire of AISI 2XX and 4XX series. Knitted Wire Mesh is produced in various design forms with application of steel, polyester, etc.

**The Sleeve Mesh (SM)** is a component product for rejecting mesh (demister), flame-blockers (defenders, protectors), various filters, sound savers, etc.



Our products are successfully used at the enterprises of the petroleum and chemical industries and production of capacitive equipment.

# Thermo-Gasket Strip (Metal Strip Seal)

**Thermo-Gasket Strip (Metal Strip Seal)** is a product made by a special technology from the finest metal bands, usually made of precision alloys, by giving them a specific structure for ultimate flexibility and tightness. Thermo-Gasket Strip is used to seal joints in the gas pumping unit (gas pumping turbines).



Our company is **the only manufacturer** of this product in Russia.

The product fully complies with import analogues of these products.

# Tinned Copper Braid

**Tinned Copper Braid** is intended for protecting of cables, wire harnesses, installation wires. **Tinned Copper Braid** provides an additional protection from external electromagnetic radiation impacts.

Also, the mesh can be used for working or protective grounding connection in the section from electrical equipment to the earth conductor.



Product	measure unit	Weight kg/linear m	Max. protected (covered) diameter, mm	Structure		Weaving density, not less, %
				Ø wire diameter in strand, mm	wire amount in strand and strands quantity	
TCB T2 10×16	linear m	0,056	16	0,20	8×24	80
TCB T2 16×24	linear m	0,131	24	0,30	8×24	80
TCB T2 24×30	linear m	0,138	30	0,30	9×24	80
TCB T2 30×40	linear m	0,152	40	0,30	10×24	80



# EMI Copper Knitted Mesh

**EMI Copper Knitted Mesh** made of (tin-plated) copper wire is used for **EMI protecting cable connections**. It is used for **EMI protecting of cable joints**, restoring the screen power cables, alignment, electric potential and to align the connections pane in the oil-filled cables.



Scrubber mesh is made in the form of uncut sleeve, with width from 80 mm up to 150 mm. It's plane and flexibility features provide perfect cleaning without any abrasive effect upon the material being processed.

# Copper Flexible Braid

**Copper Flexible Braid** is an uninsulated copper braided wires which is used for **earth-grounding** of electrical equipment and other similar products, for connection of **brushes of electric furnaces** and electric machines, **outputs of power semiconductor devices**, etc.



Product	Nominal wire diameter, mm	Weight kg/linear m	Nominal cross-section, mm	Nominal dimensions mm		Braid Step, mm	wire number in strand	Wire quantity in strand	Electrical resistivity 1 km of wire per. Ohm, not more
				width	thickness				
AMG 16	0,2	0,150	16	15	2,5	115	24	21	1,24
AMG 25	0,25	0,237	25	18	2,5	120	24	21	0,79
AMG-T 16	0,2	0,150	16	15	2,5	115	24	21	1,24
AMG-T 25	0,3	0,237	25	18	2,5	120	24	15	0,79

# Demister

**Mesh demisters** or as synonyms: **demister, drop entrainment, mist eliminator.**

Our Company manufactures demisters, that comply with applicable Russian and foreign standards and technical requirements.



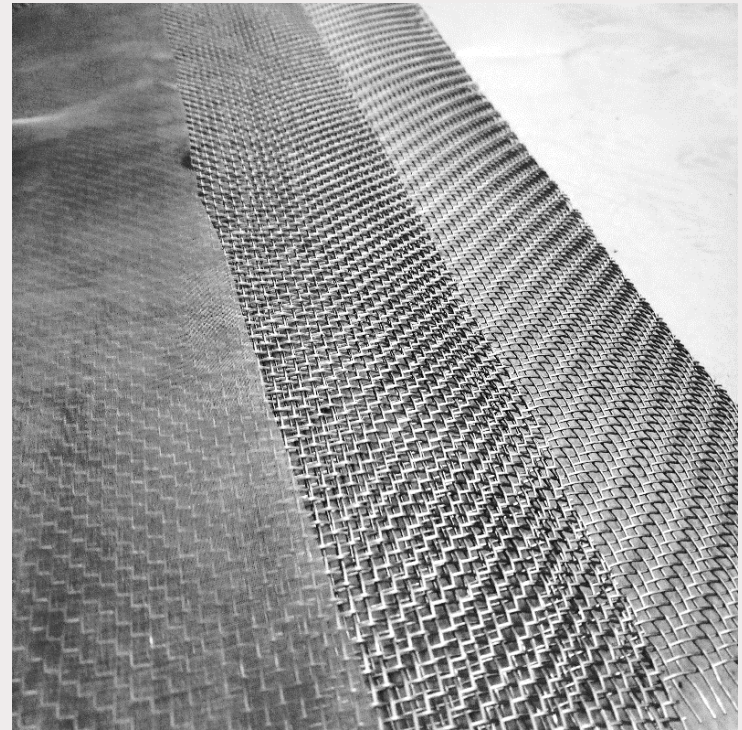
Demisters are the most effective elements for cleaning, drying, distillation and separation of gas and vapor parts of devices, which must receive set parameters of technological processes.

# Woven metal mesh

**Brass, copper, bronze and SS woven mesh** is widely used not only in industry production but also in everyday life.

Main fields of usage:

- filtration of air, gaseous and liquid substances;
- sorting of crushed substances;
- production of filters in engineering, space technology, pharmaceuticals and other fields;
- purification of air, dispersion of sand;
- dehydration;
- percolation under pressure;
- clay mud wash in oil extraction process;
- purification of clay emulsion for the purpose of concentrating manganese ores;
- manufacture of sieves, screens and other sieving devices.



# Contacts

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