

# Filtering bags for bag house filters

**Filtering bags** are used for replacement of wearing and equipping of bag house filters for cleaning of air from dust in metallurgy, food industry, at the construction enterprises and other industries.

Bags can be made of modern highly effective nonwoven filter medium. Some basic types of nonwoven filter medium are in the table below.



*Fig.1 Bags*

Reliable operation of bag filters is ensured by use of bags from highly effective and strong filter medium, and also by quality of manufacturing sewing of bags.

To meet modern high requirements we use new nonwoven filter mediums that are different from other woven structures in:

- higher efficiency up to 99,99 %;
- ability to trap finely dispersed dust with the size of more than 1 micron;
- the application of special materials allows to catch aerosols of 0,3-0,5 micron;
- high temperature stability up to 260°C;
- high wear resistance increasing a life of their operation due to use of strong framework nets in the structure of material.

As it was specified above reliable operation of bag filters significantly depends on quality of sewing of bags since they are exposed to repeated cycles of regeneration while in service, i.e. bags are subject to various shaking up mechanisms, pulses of compressed air or return flow.

Thus the reliability can be assured by high characteristics of used filtering materials as well as by good process equipment for filter manufacturing.

High quality of our bags is ensured by use of the specialized equipment. Two kinds of special sewing machines are shown on fig. 2 and 3.

The first machine (fig. 2) provides sewing of material with a special lock seam with triple stitching, that provides practically 100 % reliability of operation. The second machine (fig. 3) sews in various rings, cords, pads, etc. that are necessary for installation and sealing of filter bags.



*Fig. 2 Specialized sewing machine, providing lock seam*



*Fig .3 Specialized sewing machine for sewing in rings, pads, etc.*

### CHARACTERISTICS OF SOME TYPES OF NONWOVEN FILTER MEDIUM

Table 1

№	Types of filter medium	Temperature of application, max, °C	Size of particles efficiently captured, mcm
1.	Nonwoven polyester framework medium	140	1,0
2.	Antistatic nonwoven polyester framework medium	140	1,0
3.	High efficient nonwoven medium with polyester membrane covering	140	0,3
4.	Thermostable (Heat – resistant) nonwoven aramide framework medium “Nomex”	200	1,0
5.	High temperature nonwoven framework medium	260	1,0

We can make bags of other materials by your request.

To place an order send the draft of your bag to e-mail: [folter@folter.ru](mailto:folter@folter.ru), please.

Then you place an order it is necessary to specify:

1. Diameter of bag ( external and internal)
2. Length of a bag
3. Presence of a skeleton
4. Presence of a bottom at a bag
5. Direction of inlet and outlet of air
6. Method of fastening of a bag in installation
7. Type of material of a bag
8. An opportunity of sawing of a bag with a seam “lock”.

The sketch applied for accommodation of the order should contain answers to all these questions. Also you can inform other data on your bag.