

- Name: High Capacity Eurosupra© 2
- Mark: HCS-2 - Short mark: 153
- speakingcode: E423382HC

CONSTRUCTION

Slitted and expanded fireproof kraft paper
 3 layers HC mesh
 4 layers regular mesh
 1 layer minimesh
 1 polyester strainer type 2
 The layers are overlapped and sewn together

PRESSURE DROP VALUES (CLEAN FILTER)

Velocity [m/sec]	Pressure drop [Pa]
0,5	10
0,75	20
1	30
1,25	40
1,5	55
1,75	70

FILTRATION EFFICIENCY AND SERVICE LIFE

The raccoglivernice© (paint collectors) separate, from the exhaust air of painting booths, the solid part of the overspray. The features of this type of aerosol change in function of many parameters like:

- Painting product's features
- Quantity sprayed
- Spraying technic
- Flow rate
- Transfer efficiency

The average efficiency and the service life are function of the following parameters:

- Aerosol's features
- Air velocity
- Distance between gun and filter
- Maximum allowed pressure drop

Therefore the performances of the product described in this technical schedule vary and are typic of each individual installation. The true performance have to be mesared "in situ". Nevertheless, as a guide line, we supply the following lab results:

Painting product	efficiency %	Paint holding [kg/m ²]
High solid enamel oven-cure	98,5	16,96 [at 50 Pa]
Water based enamel oven-cure	97,5	14,8 [at 120 Pa]

When designing a new plant or a water-wash conversion the "parameters schedule" must be filled. On the base of these informations a "Calculations schedule" will be supplied which gives the directions to follow.

APPLICATIONS

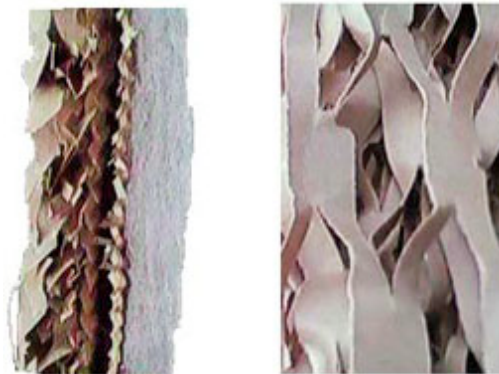
Filtration of exhaust air coming from liquid paint spraying.

CLASSIFICATIONS

Fire behavioire: Class F1/20 mm [DIN 53438 part 3a]

Disposal: the clean filter is classified as non toxic waste. The filter full of paint must be analysed. The classification is normally the same as the paint. When classified as "toxic" because of the solvent content, the filter can be dried in a dryer. In such a case always calculate the concentration of solvent in the dryer in order to stay below the 0,25 of the Lower Explosion Limit.

- Rolls m 1 x 10 (pads on demand)
- Packing: plastic bag
- Weight: 5 Kg - Volume: 0,169 m³



INSTALLATION

The filter must be hanged at wide grid (about 50 x 50 mm-2.5 thread up to 200x200 8 mm thread) with jutting out pins.

See drawings 94001 e 94001A. The filter must be hanged at the grid in side by side strips sligtly overlapped in such a way to avoid by-pass. It is advisable to install the manometer type MM200600 to controll the variations of pressure drop, or the Meterpressureswitch wich allows a visual controll and gives an electrical signal when the limit as been reached. For a better management of the installation is also possible to install a flow meter MP sery.

SAFETY

The air velocity in the spray booth must be frequently checked in order to be sure that its value is always higher then the minimum designed by the booth's manufacturer or required by the Authorities. Check, by mean of ICA001 (air current detector) the airflow which should be uniform ad without windwhirls which might be dangerous to the operator or to the quality of the product. Change the filter when the maximum pressure drop allowed has been reached or when the flowmeter gives a value below the minimum.

Check at regular intervals the stacks, fans and inside of the booth and clean from any overspray deposit.

In case of use of paints that self-ignite or of that reacte with other paints arrange all the safety procedures suggested by the paint producer.

Performance Engineered Air Filter Products
Columbus Industries, Inc.

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