# BOPP
Composite-PLUS

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We're looking into an exciting future

Our recently introduced Betamesh-PLUS meshes offer a range of interesting opportunities when used as filter layers in composite meshes. This design results in robust mesh structures with extremely fine filtration properties, whilst retaining the highest flow rates. Power consumed by your filtration processes will be reduced and the service life of the filter element will increase, thereby reducing operating costs. Bespoke mesh combinations are available in addition to the composite meshes discussed below.

Topmesh-PLUS 2 Layer

A two layer filter medium using Betamesh-PLUS as the filtration layer and a support structure consisting of a square weave mesh for optimum stability. Ideal for medium pressure loads with optimum backwashing properties. The reduced number of layers results in minimal pressure drop.
Ideal for CIP (Cleaning in Place) filters used in the chemical and pharmaceutical industries. For extremely high pressure loads and larger diameters, additional support elements may be required.
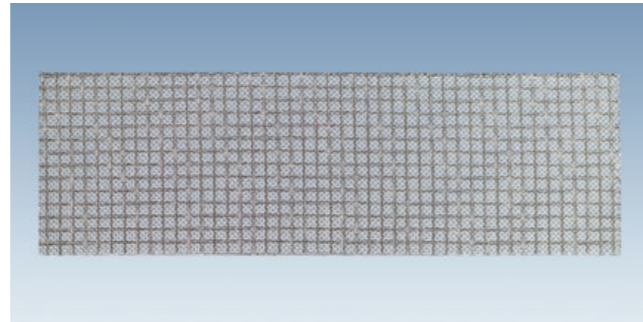

Topmesh-PLUS 3 Layer

A three layer filter medium using Betamesh-PLUS as the filtration layer and a stable support structure made from square weave mesh, with a connecting layer in between to increase the available pressure load. Backwashing capabilities and flow resistance remain unchanged. Generally does not require any additional support element.
Topmesh 3 Layer is therefore ideal for CIP filters.
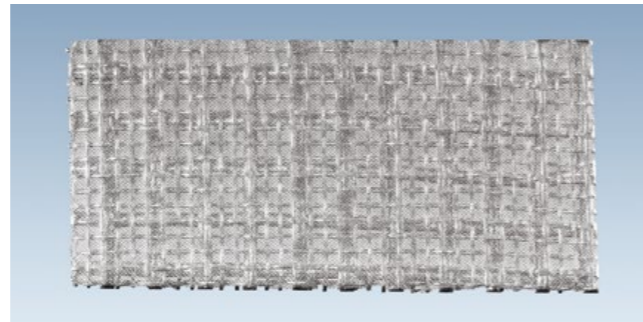
Poremet-PLUS

Poremet-PLUS is an extremely stable plate-type filter medium developed for high pressure loads and harsh operating conditions. It is particularly suitable for fine and finest filtration applications.
Using Betamesh-PLUS as the filter layer, this material also has excellent backwashing properties for finest filtration applications.
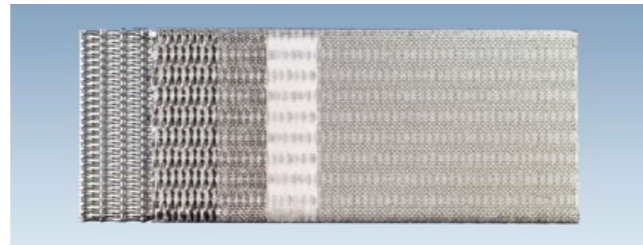
Absolta-PLUS

Absolta-PLUS is a stable, highly porous filter medium developed for harsh operating conditions and moderate pressure loads.
Using Betamesh-PLUS mesh as the filter layer, this material exhibits very good backwashing properties and high flow rates. It is particularly suited to fine and finest filtration applications. Absolta-PLUS consists of an optimised combination of five mesh layers.
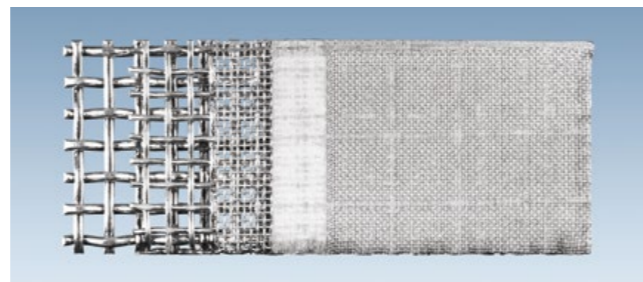

Technical Data

Mesh Description	Geometric pore size [µm]	Mesh thickness [mm]	Porosity [%]	A_s [mm²/cm]	R_p [N/cm]	Weight [kg/m²]	Eu
TM2-PLUS 5	5	0.7	60	1.3	207	2.25	2'176
TM2-PLUS 6	6	0.7	60	1.3	207	2.25	1'917
TM2-PLUS 7	7	0.7	60	1.3	207	2.25	1'341
TM2-PLUS 8	8	0.7	60	1.3	207	2.30	1'185
TM2-PLUS 10	10	0.7	60	1.3	207	2.30	847
TM2-PLUS 12	12	0.7	60	1.3	207	2.30	695
TM2-PLUS 15	15	0.7	60	1.3	207	2.30	537
TM3-PLUS 5	5	2.0	60	3.6	573	6.05	2'250
TM3-PLUS 6	6	2.0	60	3.6	573	6.05	1'900
TM3-PLUS 7	7	2.0	60	3.6	573	6.05	1'271
TM3-PLUS 8	8	2.0	60	3.6	573	6.10	1'096
TM3-PLUS 10	10	2.0	60	3.6	573	6.10	816
TM3-PLUS 12	12	2.0	60	3.6	573	6.10	669
TM3-PLUS 15	15	2.0	60	3.6	573	6.10	469
Absolta-PLUS 5	5	2.4	55	4.9	780	8.20	2'370
Absolta-PLUS 6	6	2.4	55	4.9	780	8.20	2'022
Absolta-PLUS 7	7	2.4	55	4.9	780	8.20	1'456
Absolta-PLUS 8	8	2.4	55	4.9	780	8.25	1'300
Absolta-PLUS 10	10	2.4	55	4.9	780	8.25	1'005
Absolta-PLUS 12	12	2.4	55	4.9	780	8.25	835
Absolta-PLUS 15	15	2.4	55	4.9	780	8.25	713
Poremet-PLUS 5	5	1.7	30	5.5	1080	9.05	3'345
Poremet-PLUS 6	6	1.7	30	5.5	1080	9.05	3'050
Poremet-PLUS 7	7	1.7	30	5.5	1080	9.05	2'438
Poremet-PLUS 8	8	1.7	30	5.5	1080	9.10	2'225
Poremet-PLUS 10	10	1.7	30	5.5	1080	9.10	1'981
Poremet-PLUS 12	12	1.7	30	5.5	1080	9.10	1'831
Poremet-PLUS 15	15	1.7	30	5.5	1080	9.10	1'704

- **Geometric pore size x_{geo}**
  A value calculated based on characteristic mesh parameters such as weave, wire diameter and divisions. It expresses the diameter of the largest ball capable of passing through the mesh.

- **Yield point R_p**
  Maximum permissible load on the mesh in warp or weft direction without causing significant permanent deformation.

- **A_s**
  The effective cross section of the wire that runs perpendicular to the cut edge

- **Porosity**
  Proportion of the open area of the mesh to the total area of the mesh. The total area is expressed in terms of length, width and thickness.

- **Eu**
  Dimensionless figure (Euler's number) used to assess the relationship of the pressure to the inertial forces of the mesh specification in question. Higher values indicate higher differential pressure values under the same conditions (Air, 20 m/min, 20°C). The values are only suitable for comparing the mesh to the flow resistance.

- We reserve the right to make technical changes

- Customer-specific composite meshes produced to defined specifications are also available.

The BOPP Group
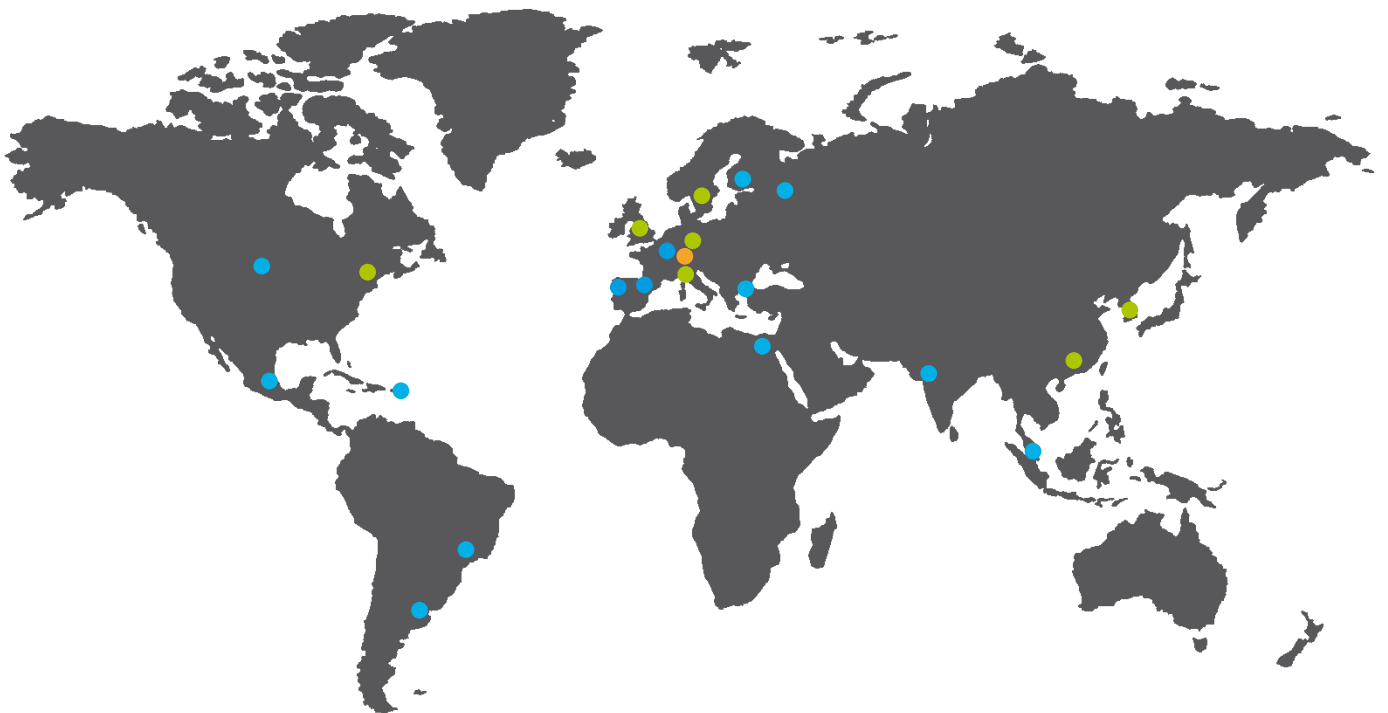
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09.2023 Marketing/VOP