BOPP – World Leaders in High Tech Meshes

G BOPP + Co AG, based in Switzerland, is one of the world’s leading producers of precision woven steel mesh used in the most diverse applications. Established in 1881, we have developed from manufacturers of coarser meshes to producers of high tech fine meshes, some with wire diameters of less than 0.015mm, around a quarter of the diameter of a human hair.

Close cooperation with countless customers in diverse fields including filtration, sieving, chemical industries and design means that we can offer a valuable and comprehensive range of experience in every sphere. This knowledge and experience, based on practical applications, trials and improvements, has resulted in convincing solutions for many different projects and has had a lasting effect on many processes.

BOPP – Additional Services

As well as enjoying an international reputation for the highest quality mesh products, BOPP also specialises in further processing its materials. Mesh is fabricated into finished components to individual customer specifications, which can then be integrated directly into your own manufacturing processes.

Coatings
Our coatings are designed to enhance performance whilst protecting against other external influences.
- Hydrophobic and oleophobic with HC8
- Angle of contact up to 145°
- Temperature resistance up to 200° C

Thermal Treatments
Using the processes listed below, mechanical material characteristics such as hardness, elasticity and formability can be optimised for further processing.
- Optimised processability
- Variable degrees of hardness and formability
- No loose wires
- Stress relieved annealing

Calendering
- Strips or entire rolls
- Up to 40% reduction in thickness
- Variable gloss levels
- Surface structure properties
- Customer-specific realization

Partnerships
We can carry out further processing in partnership with various reputable converters worldwide known for work including:
- Insert molding
- Pressure sensitive adhesive strips
- Component assembly
- ...and many others

We primarily weave and produce using the following materials. Other options are available on request.
- Stainless steel DIN 1.4301 and 1.4401
- Stainless steel DIN 1.4306 and 1.4404
- Hastelloy
- Nickel
- Aluminium
- Titanium
- Avesta
- Copper
- Bronze

As manufacturers of precision woven mesh, BOPP offers a comprehensive portfolio of products for businesses operating across the entire hydrogen circuit, covering generation of renewables, electrolysis, transport and storage through to fuel cells.

Today, we offer more than a decade of experience and knowledge in the most diverse sectors around the theme of hydrogen, and are established providers of comprehensive solutions. We now deliver many finished products manufactured to individual customer requirements, integrated directly into the manufacturing process, rather than simple rolls of material.

Our engineering department is always pleased to advise on the right choice of material together with component design, using prototypes to carry out detailed analyses to optimise the end product. Where required, we can also provide you with external expertise and certifications.

Engineering
We are happy to provide assistance with selecting the right mesh specification in terms of material properties, geometric form and component design using:
- Demand analyses
- Materials recommendations
- Design suggestions
- Technical drawings
- Cost calculations
- Production engineering

Fabrication
- Precision cutting & die cutting
  - Perfectly cut edges and angles
- Forming, bending, drawing and edge binding
- Welding, soldering, bonding
- Prototypes, one-offs
- Efficient volume production
- Process orientated packaging
- Flexing

Quality Control and Measurement
- Customer-specific quality checks
- Production of measurement protocols
- Certification, records
### BOPP – Products

BOPP manufactures a comprehensive range of fine wire meshes incorporating specific properties for the most diverse applications. For more challenging filtration applications, we sinter multiple layers of mesh using heat and pressure to provide multi-layer filter laminates.

- **Twilled Dutch weave**
  Specialist meshes for filtration with five pore levels

- **Betamesh & Betamesh Plus**
  The premier choice for traditional filtration applications

- **Square Weave Mesh**
  First class flow rates with minimal drop in pressure

- **Robusta**
  Our solution for challenging mechanical demands

- **Duplex**
  Good flow rates and enhanced wear resistance

- **Plain Dutch Weave**
  Our balanced all rounder for diverse applications

- **Absolta**
  An extremely porous filter laminate developed for high flow capacities

- **Poremet**
  A five layer filter medium with exceptional filter fineness

- **Topmesh 2**
  Increased stability due to a combination with a support layer

- **Topmesh 3**
  Three mesh layers for harsh industrial applications

- **Poreflo**
  Exceptional performance for fluidisation applications

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The key to performance filtration: choosing the right mesh

We divide our meshes into single layer and multi-layer materials.
The BOPP Group

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«THE ART OF SWISS PRECISION»