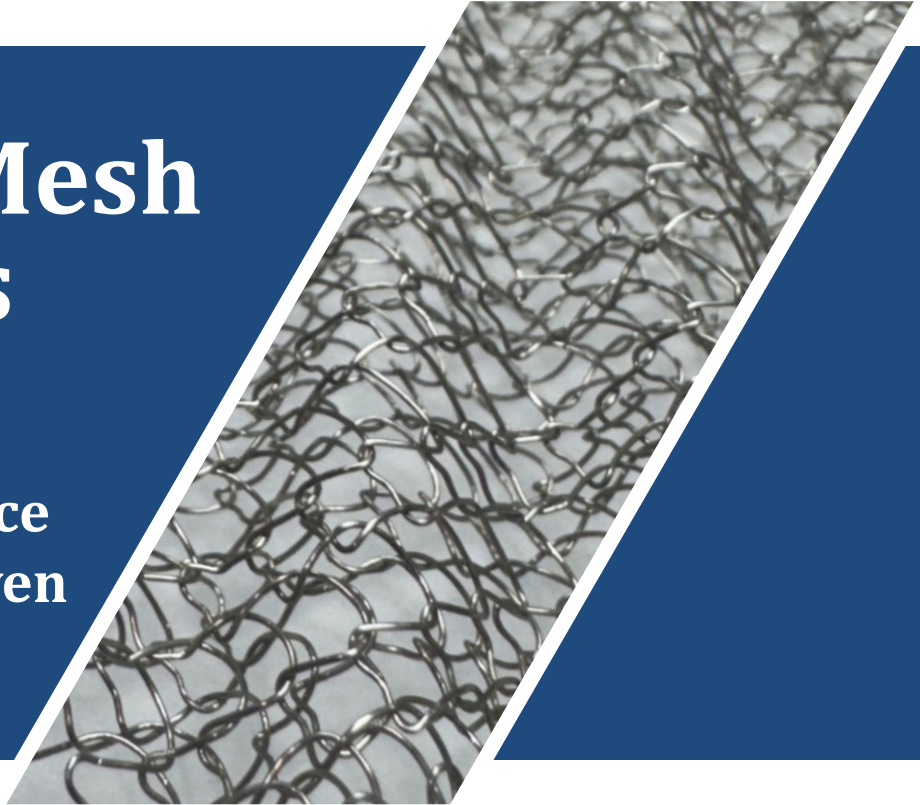


Knitted Mesh Solutions

Flexible
High-Performance
Application-Driven



Functional Advantages of Knitted Mesh

- High Porosity** : Maximizes reactant flow and water management
- Excellent Conductivity** : Enhances electrical pathways for improved efficiency
- Gas & Liquid Permeability** : Supports optimal mass transport in electrochemical stacks
- Mechanical Conformability** : Fits irregular and layered component designs
- Corrosion Resistance** : Engineered for long service life in aggressive environments
- Design Flexibility** : Easily tailored to stack-specific or device-specific requirements
- Enhanced Surface Area** : The ridges increase surface roughness, which can influence adhesion, friction, or interaction with coatings and fluids.

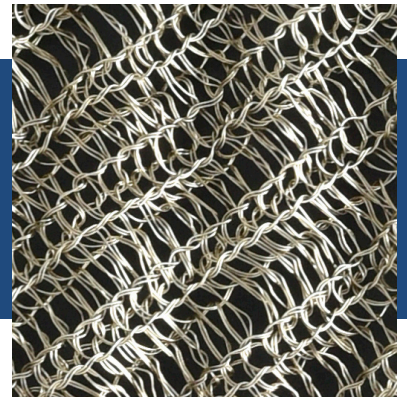
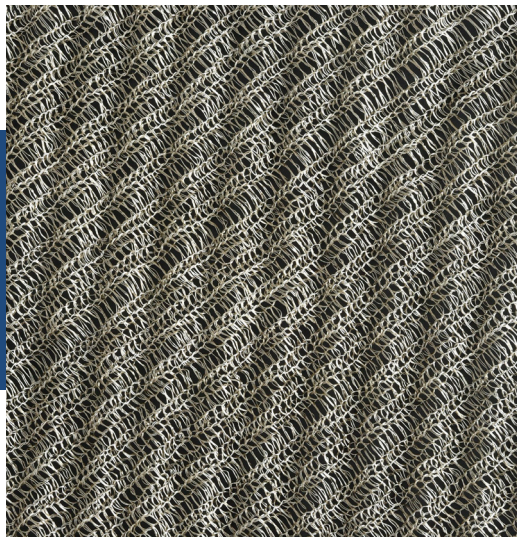
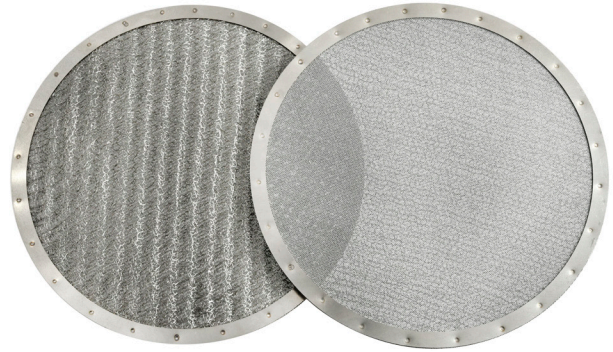
Key Parameters (Tailored to Application Needs)

- Knit Type** : Single, Double and Multi end
- Single Piece Sizes** : Available **up to 1.5 meter diameter** for large-scale assemblies
- Material Options** : **Nickel (201/ 202)**, Copper, Stainless Steel, Titanium, Hastelloy, and specialty alloys
- Wire Diameter Range** : **0.05 mm to 0.30 mm**, adaptable to strength and porosity needs
- Mesh Density** : Adjustable for optimized porosity, permeability, and mechanical resilience
- Roll Widths / Shapes** : Continuous rolls, and custom die-cut geometries including **laser-cut precision** parts
- Surface Treatments** : **Degreased, annealed, coated**, or plated for enhanced conductivity, cleanliness, and corrosion resistance
- Finishing & Forming** : **Crimped, corrugated** (Herringbone, W, V shapes with variable angles), or **flattened** profiles engineered to match application-specific elasticity, flow, and integration requirements

BVK Competitive Edge

At BVK Hydrotech, we deliver more than mesh—we deliver confidence. With the ability to produce **custom sizes up to 1.5m in a single piece**, we enable seamless integration into advanced systems. Our **integrated R&D and prototyping**, supported by CFD modeling, ensures optimal structure and performance from concept to scale-up.

We combine **global certified material sourcing** with **sustainable, ESG-compliant manufacturing**, powered by renewable energy. Leveraging **Industry 4.0 capabilities**, our processes achieve unmatched **precision, efficiency, and consistency**, giving customers a true competitive edge in clean energy technologies.



Engineering Mesh for the Future

At BVK Hydrotech, we bring together **design, material science, and process know-how** to create engineered mesh solutions that power your next generation of innovation. Our **engineering-led approach**, combining DSIR-certified R&D, manufacturing, and on-site validation, ensures rapid iteration and reliable performance across demanding applications.

From **battery cell separation and cooling systems to sensor protection and e-mobility components**, our stainless steel and nickel alloy meshes deliver durability, neutrality, and scalability aligned with IATF standards. With **just-in-time delivery**, bulk ordering, and digital procurement integration, we stay responsive—offering consultation, technical validation, and training support to ensure seamless adoption at every stage.

✉ Mail info@bvkgroup.in

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