Popular Mesh Materials for Laser Processing

One of the key materials we work with is polyether ether ketone (PEEK) mesh. PEEK is a high-performance polymer that offers exceptional mechanical, chemical, and thermal properties, making it an ideal material for demanding applications. Our UV laser processing for PEEK mesh finds a wide range of applications in aerospace, medical device, and electronics industries. In aerospace and automotive, PEEK mesh is commonly used for air filtration, fluid filtration, and reinforcement of composites in aircraft structures. Its high strength-to-weight ratio, resistance to chemicals and wear, and ability to withstand high temperatures provide critical benefits to these applications. In medical device and pharmaceutical industries, PEEK mesh is utilized in implants, surgical instruments, and filtration devices for its biocompatibility and resistance to sterilization.

Polyester is a versatile and durable material with excellent chemical resistance and dimensional stability, making it suitable for a wide range of engineering applications. Polyester mesh is a synthetic material that is strong, durable, and resistant to chemicals and UV radiation. It is commonly used for screen printing, filtration, and industrial applications.

Another popular choice is stainless steel. Stainless steel mesh is a versatile material that is used in a wide range of applications due to its strength, durability, and resistance to corrosion and staining. Applications include filtration, separation, and sieving of solids and liquids. It is also used in the production of various products such as screens, grilles, and guards for ventilation systems, windows, and doors.

Aluminum is a lightweight and corrosion-resistant metal with good thermal and electrical conductivity, making it ideal for a variety of engineering applications such as electronics. Aluminum mesh is a type of metal mesh made from aluminum wires that are woven or welded together to form a flexible and lightweight material. It is used in a wide range of applications due to its strength, durability, and lightweight nature. It is also easily malleable and can be shaped and formed to fit specific applications, making it a popular choice in various industries.

Copper is a highly conductive metal that is known for its excellent thermal and electrical conductivity, making it a popular choice for various applications where conductivity is required. It is also known for its antimicrobial properties, which makes it a popular choice in applications such as HVAC systems, where it can help prevent the growth of bacteria and other microorganisms

Request a Quote for Laser Cutting Mesh

- Name*
- Company
- Email*
- Phone*
- Tell Us About Your Project:

At A-Laser, we understand the importance of precision, efficiency, and reliability in laser processing for mesh materials. Our state-of-the-art UV laser processing technology, combined with our expertise in working with mesh, makes us a trusted partner for your next project.

For details on A-Laser's capabilities of thickness, tolerance, and more for these materials, please see the images below.

Laser Cutting Mesh Materials (a-laser.com)

A-Laser Precision Laser Cutting - Laser Ablation, UV and IR Lasers