

# Knitted Wire Mesh for Reinforced Flexible Materials



KnitMesh Technologies® knitted wire mesh can be used in a broad range of composite materials to produce fabrics or structures with enhanced performance characteristics. By sandwiching or bonding a layer of knitted mesh into or between flexible materials, the ruggedness, durability, and anti-vandal properties of that material are markedly improved.

## Lamination Methods

Knitted mesh can be incorporated into reinforced flexible materials in a variety of ways. The bottom right hand image above demonstrates two of these.

- The white strip is polyester which has been heat-bonded to the green backing thus fixing the mesh in place.
- The black line is thread which has been stitched through the mesh into the flexible green backing.
- Mesh can also be glued into position.

## Applications

Reinforced flexible materials, incorporating knitted mesh, can be used in a broad range of applications including:

- Knife (slash) proof curtains for commercial vehicles
- Knife (slash) proof fabrics for public transport seating
- Cut resistant fabrics for inflatable structures such as buildings, rigid inflatable boats (RIB's) etc.
- Heavy duty tarpaulins
- Safety straps and restraints
- Protective clothing

## Quality Assurance

KnitMesh Technologies® is accredited to:

ISO 9001:2015, ISO 14001:2015, ISO 4500:2018, PAS 99:2012, IATF 16949:2016.

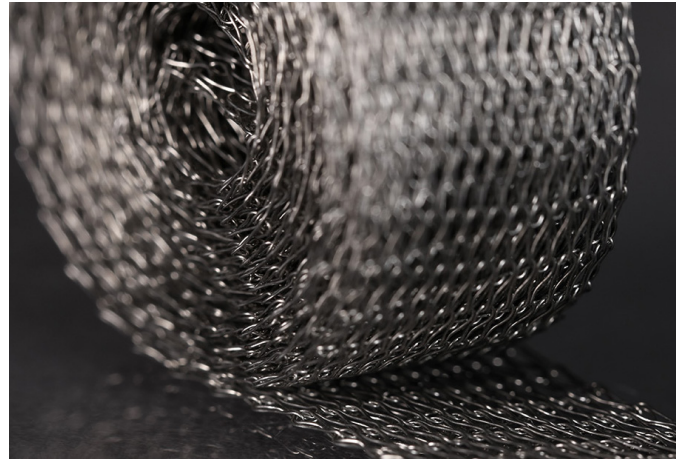


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## Features and Benefits

As existing suppliers to the reinforced flexible materials industry, KnitMesh Technologies can confirm that knitted mesh reinforced flexible materials have the following features and benefits:

- Mesh reinforced flexible materials offer improved ruggedness, durability, and anti-vandal properties
- Saves money by reducing repair bills and preventing losses by theft
- Mesh can be incorporated into materials using various fixing/ entrapment methods
- The mesh can be partially incorporated into sections or panels of materials providing enhanced features in specific areas
- Stainless steel mesh is commonly used to avoid any rusting or discolouration issues
- The wire mesh can be completely hidden within the laminating materials
- The knitted mesh is available in widths up to 2200mm wide and utilising wires of up to 0.5mm in diameter
- Can be cut to length to suit customer requirements
- Often supplied on cardboard tubes to allow easy further processing
- A wide range of knitted mesh types and materials can be used providing various performance/cost benefits

