



Enfil™ Engineered Fibres

Product Data Sheet

Product Description

Enfil Engineered Fibres are a family of advanced fibres developed to meet specific engineering requirements in critical end use markets of automotive, passive fire protection, aerospace etc. Controlled fibre length, precise chemistry, and levels of unfiberised material (shot content) are supremely critical in such applications. Using state of the art manufacturing technology, the amount of unfiberised material present in the fibre can be precisely controlled. This is critical for applications where excess shot can adversely affect processing performance or the quality of the finished product. Fibre cleanliness is expressed as the **Fibre Index (%)**—the higher the Fibre Index, the cleaner the fibre.

Thermal Ceramics has installed specialized equipment that enables the **average fibre length to be tailored** to individual customer requirements, ranging from standard fibre lengths down to significantly shorter lengths where required.

Enfil Engineered Fibres can be produced across the full range of **Superwool® fibre grades**, allowing selection based on the application's maximum operating temperature.

Morgan offers expert support in selecting the most suitable material from its existing portfolio and can also collaborate with customers to **develop customized fibre solutions** to meet specific application needs.

Morgan can assist in choosing the best material from our current portfolio for your given application but can also assist in developing a customized product for your application.

Features

- Excellent insulating performance
- Excellent thermal stability: fibres have good resistance to devitrification
- Low heat storage
- Resistance to thermal shock
- No smoke emission
- Excellent Resistance to chemical attack
- Very low thermal expansion
- Low electrical conductivity
- Constant coefficient of friction

Applications

- Applications, where the fibres are used to modify specific properties of a material : such as wear, strength or fatigue are as follows :
 - Friction Materials
 - Intumescent Coatings
 - Mastics
 - Paints
 - Cements
 - Plastics
 - Metals

Environmental & Health Safety

Superwool low biopersistent fibres manufactured by Morgan Advanced Materials are not classified as carcinogenic by IARC or under any national regulations on a global basis. They have no requirements for warning labels under GHS (Globally Harmonised System for the classification and labelling of chemicals).

In Europe, Superwool fibres meet the requirements specified under Note Q of European Regulation EC/1272/2008 (on Classification, Labelling and Packaging of substances and mixtures). All Morgan Advanced Materials Superwool low biopersistent fibre products are therefore exonerated from classification and labelling as hazardous in Europe.

Enfil™ Engineered Fibres

Product Data Sheet



Product Name	Enfil 99-T39	Enfil 99-T57	Enfil 99-T69	Enfil 90-T39	Enfil 90-T57	Enfil 90-T69	Enfil 95-T18	Enfil 85-T19
Fibre Index (%)	99	99	99	90	90	90	95	85
Tap Density, kg/m ³ (pcf)	625 (39)	909 (57)	1111 (69)	625 (39)	909 (57)	1111 (69)	294 (18)	308 (19)
Fibre Length, at medium volume fraction (µm)	90	65	50	85	70	50	205	200
Manufacturing Region	EMEA							
Colour	White to light grey							

Product Packaging

Enfil Fibre are available in our standard packaging. Contact your regional Morgan Advanced Materials - Thermal Ceramics representative to provide specific packaging information for your local business needs.

The product(s) represented are intended for industrial refractory applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.