



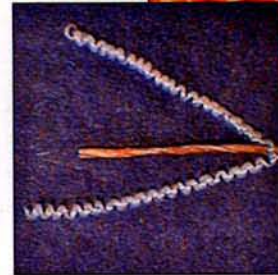
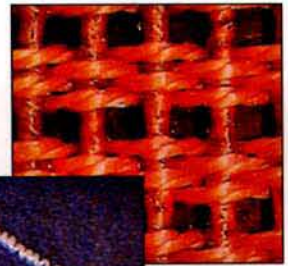
ENGINEERED
YARNS



Engineered Yarns is a custom-engineering group providing creative answers to your industrial yarn requirements.

Our team of talented professionals is supported by highly trained and dedicated plant personnel and customer service representatives. Laboratory, testing and manufacturing facilities are located in our modern 40,000 square foot Massachusetts headquarters. Engineered Yarns has the equipment, the technology and the experience to develop and produce efficient solutions that fit the needs of a growing list of original equipment manufacturers.

Engineered Yarns' products are linear composite materials based on man-made fiber substrates, usually treated with polymeric systems to enhance functional properties. Product end-markets include electrical equipment, paper machine clothing, transportation, telecommunications and composite industries.



Helically wrapped yarns for technical fabrics.

MANUFACTURING METHODS

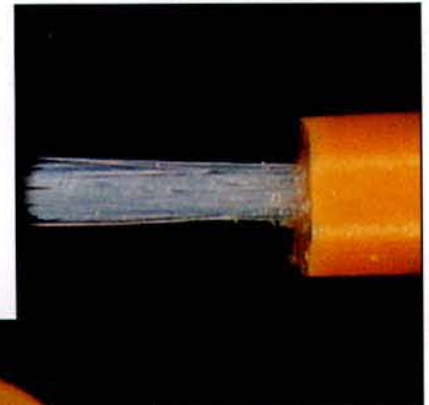
State-of-the-art, unique manufacturing methods utilized by Engineered Yarns for the development of final products include:

- Helical wrapping or serving
- Cross-head extrusion coating
- Custom monofilament extrusion
- Chemical impregnation
- Hot-melt adhesive coating

MATERIALS SELECTION

Engineered Yarns' wide selection of materials assures that the most appropriate substrate and solution or coating will be readily available for the manufacturing of each customer's particular product. As an ecologically-minded company, Engineered Yarns relies on environmentally-friendly technologies for their production processes.

Textilur[®] extrusion coated yarns for industrial applications.



The combination of a high tenacity, multifilament core yarn and selected polymer coatings enables EY to custom engineer yarns to meet the application requirements.

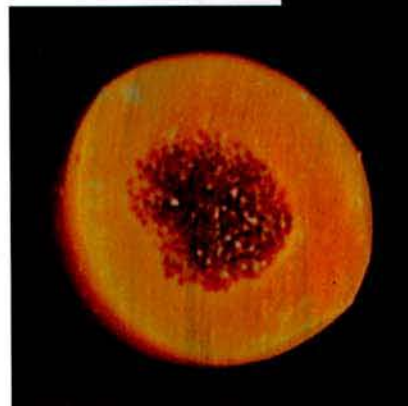
Man-made Fiber Selections Include:

- Nylon
- Polyester
- Aramid
- High Molecular Weight Polyethylene
- Fiberglass
- Carbon

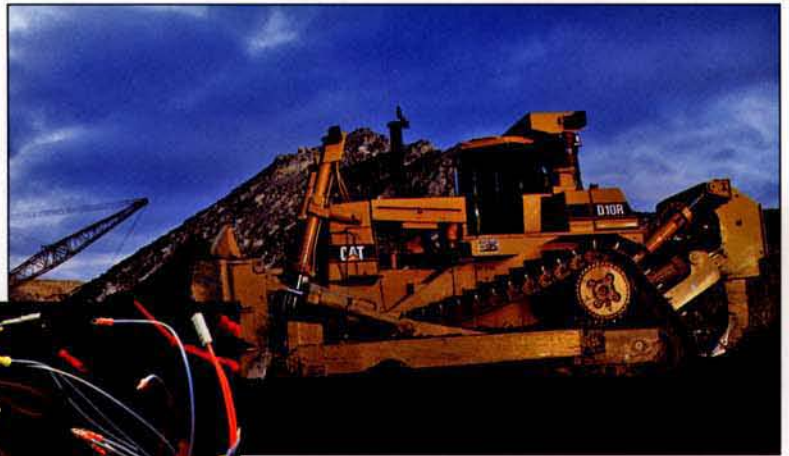
Aqueous Polymer Systems

Used for Impregnation Include:

- Urethane
- Acrylic
- Epoxy
- Fluorocarbons
- Nylon

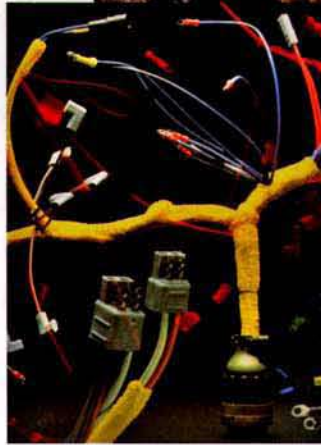


Whatever your end product has to endure, and wherever it has to operate, our engineering can increase its reliability.



Polymer Systems Used for Hot Melt and Extrusion Include:

- Polyester Elastomer
- Nylon
- Polypropylene
- EVA
- Polyvinylidene Fluoride
- Ionomer
- Thermoplastic Urethane



Textilur® for electrical harnesses.

END MARKETS

Engineered Yarns' customers share a common philosophy - there is no substitute for excellence at the first step of the manufacturing process. Our major products and end markets include:

Textilur® - Extrusion Coated Yarns - for electrical harness braids used primarily in the industrial and military transportation and heavy equipment markets.

Paper Machine Clothing Yarns - multicomponent, wrapped and chemically treated yarns for press and dryer felts. Also, extrusion coated monofilament and multifilament constructions.

Hot Melt Adhesive Coated Yarns - for stabilization of composite preforms and packaging applications.

Adpro® Yarns - specially treated to promote fiber adhesion to rubber and plastic compounds, such as hoses, mechanical rubber goods and composites.

Custom-engineered and Treated Yarns - typically used in component parts in the marine industry, safety equipment, ropes, wire and cables, filtration, gaskets and packings.



Hot melt yarn stabilized fabrics (illustrated in green) for composite preforms.

The market success of our customers' end product rests on solid ground - the correctly engineered yarn, developed, manufactured and tested to meet their specifications. At Engineered Yarns, we are constantly aware of our responsibility to provide you with a product to which you can trust your reputation.

**COATINGS TO ENHANCE
YARN PERFORMANCE**



Page Three Photographs

*A special thank you to CATERPILLAR®
and WHITE PRODUCTS B.V. for use of their
respective earth moving equipment and Textilur®
for electrical harnesses color photographs.*



**ENGINEERED
YARNS**

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