

CruxTex™ is a family of hybrid yarns and fabrics that are different to most standard materials and hybrids. They offer an almost infinite array of possibilities to combine different materials and their individual performance characteristics to get the best performance for specific applications.

How? We'll come back to that soon...

We have sold thousands of tonnes of this material in various combinations. Sectors where this has been successful include automotive friction, marine, construction and for the production of general industrial parts. Our customers continue to develop their products around CruxTex™ because it offers:

- *Up to 40% greater resin retention*
- *Superior wet out*
- *The fabric or yarn can be engineered to fit the resin system, meaning huge flexibility, choice and often cost savings*
- *Exceptional interfacial bond strength*
- *Improved resistance to harsh chemical and abrasive environments*

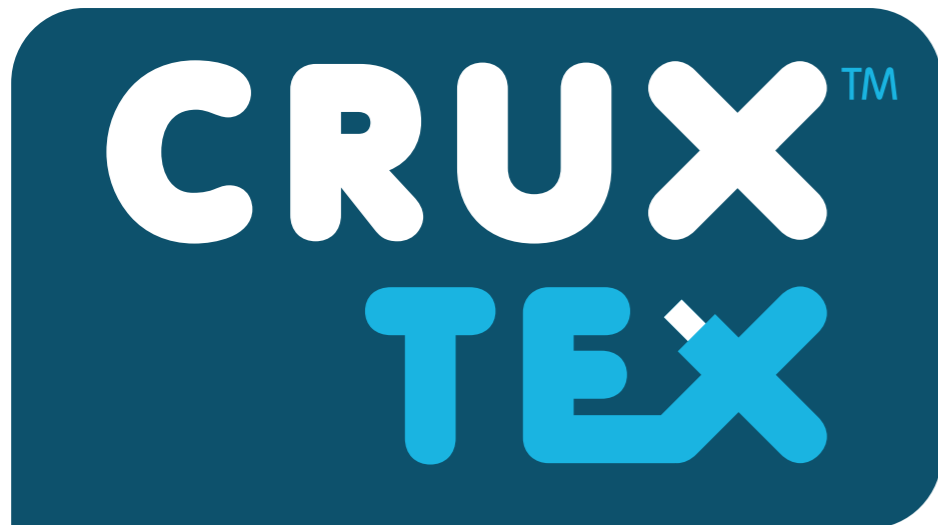
CruxTex™ uses core and sheath technology that was originally used to make cleaning mops and fabrics due to the highly absorbent characteristics of the yarn. We have built on this by combining this technology with our ability to engineer and produce highly innovative hybrid fibre blends.

The core material is a continuous filament typically made from Carbon, Aramid or Glass (but can be any). A friction spinning process is used to apply a fibre sheath to the core. The sheath can be made from either a single staple fibre type, or a hybrid formulated for a specific purpose. Materials that we use in sheath applications include PPS, Cotton, Polypropylene, Aramid and Glass. Our fibre blending process is highly accurate and we have the systems in place to prove it. Continuously.

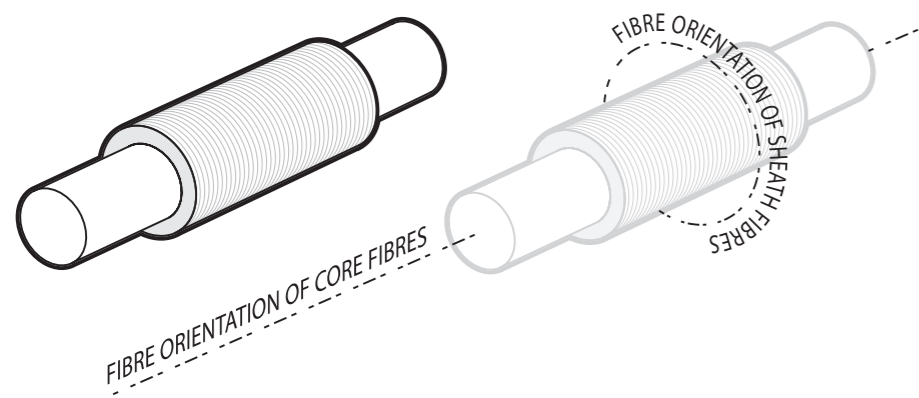


West Auckland, County Durham, DL14 9PD, UK  
Tel: +44 (0) 1388 832 321 Fax: +44 (0) 1388 832200  
[www.aptecproducts.co.uk](http://www.aptecproducts.co.uk)

Our CruxTex™ product



**an aptec product**



### **Industrial Composite Reinforcement**

Uni-directional and conventionally woven fabrics from any materials required including Aramid, Carbon, E-Glass, S-Glass, Cotton and Poly-Propylene, PTFE and PPS.

Fabrics can be supplied in a wide range of finishes and specifications and range in weight from 200g/sqm to 1,100g/sqm. Weave patterns are available in plain, twill, satin and herring bone.

We specialise in hybrid, short staple fibre yarns and fabrics that are carded ring spun types and are typically used in applications such as:

- Wear parts
- Bearings
- Rotor vanes
- Industrial seals
- Laminate boards

### **Chopped and Milled Fibres**

For use in moulding compounds, our fibre processing plant enables us to offer accurately cut and milled fibres that range in length from 250µm to 70mm in length. Materials we generally work with include Glass, Para and Meta Aramid and PPS.

### **Compounds**

Our compounding and dry mixing facility is set up to serve our customers with an outsourced service. We specialise in rubber based moulding compounds and can supply material that is disintegrated to a particle size of 100µm. Typical applications include:

- Brake mixes for both Automotive and Rail applications globally
- Gasket mixes
- Special mixes for moulded composite parts
- Mixtures for the extrusion industry

### **Aptec Products Ltd**

Based in the North East of England, our business is split into two separate business units:

1. Contract Mixing
2. Technical Textiles.

Both operate with a common focus: to partner our customers closely so that we add value to their products through technical and commercial differentiation.

We make innovative yarns and fabrics, supply chopped fibres and our mixing facility manufactures large batches of rubber based moulding compounds.

### **Challenge us!**

*We like problems. We want to help!*

Our highly experienced team have a broad range of skills and we are not only interested in solving your problems technically, we like to understand your business and therefore engineer solutions that are totally aligned with your commercial objectives too!

We take great pride on being approachable, friendly and professional and you can be assured that we will treat your enquiry with respect and courtesy.

Our team would be delighted to sit down over a coffee to get to know you and work out a way that we might be able to help. We are highly flexible and can accommodate at our place or indeed travel to yours.

Please give us a call on:

**+44 (0) 1388 832 321**

Or drop us an email:

**enquiries@apteproducts.co.uk**

We will call you back at a time that is convenient for you.

