

High Performance Textile Testing

Company

PPSS Group

Industry

Personal Protective Equipment and Clothing

Region

United Kingdom, EMEA, and worldwide

Intertek Solutions

High Performance Textile Testing

"Intertek has been, and is currently playing a crucial role in the development and in the constant quality control of our knife and slash resistant clothing."

- Robert Kaiser, CEO, PPSS

For further information on Intertek's Quality and Safety solutions visit:
www.intertek.com

PPSS is a specialised manufacturer of bespoke knife, bite and slash resistant garments. With a passion to protect frontline personnel at work, PPSS continuously seeks to improve and develop new equipment and garments. The UK-based manufacturer uses its own high-performance material to provide hidden protection. Innovative knife protection is what PPSS is all about. PPSS Group manufactures stab vests, slash resistant sweatshirts, sleeves and work trousers, gloves and boiler suits. PPSS aims to give police, security personnel, health professionals, lone workers and anyone in direct contact with the public the confidence that extra layer of hidden protection can provide. Industrial workers in the metal and glass industries also benefit from PPSS products.



Cut-Tex PRO™ Cut and Slash Resistant fabric acquired independent testing from Intertek

Industry/Business Challenge

PPSS developed an ultra high cut-resistant textile called Cut-Tex PRO™. This innovative fabric offers exceptional and unrivalled cut resistance. In order to use the fabric for the personal protective equipment (PPE) and clothing market, the material needed to be tested. The added challenge was to substantiate independently the extraordinary properties of the material with independent, scientific evidence.

The Solution

PPSS turned to Intertek for technical expertise and testing. Intertek has experts versed in the stringent testing requirements and standards for PPE fabrics. The testing was performed in Intertek's laboratory in Leicester, UK.

The fabric was tested to BS EN 388: 2003 Blade Cut Resistance. It achieved the highest rating of Level 5. The fabric also reached Level 5 when tested to the European and International Standard BS EN ISO 13997:1999, which is highly regarded as the most stringent and efficient Standard for blade cut resistance.

The standard requires a cutting load of 22N to achieve Level 5. Intertek concluded the fabric took a cutting load of 25.2N to penetrate the textile. Such a result demonstrates the incredible strength of the fabric. Additionally, gloves lined with the fabric achieved a Level 4 rating to the EN 388:2003 Puncture Resistance standard. Intertek helped PPSS prove its claims with technical testing and expertise.