

# Double Fabric Innovation from **Toray**

**Toray Textiles Europe Ltd, a world leader in textile manufacturing, launches innovative molten metal splash protection and heat and flame resistant fabrics at Tectextil**

## ThermGuard™ Molten Repel: Molten metal splash protection fabric



**T**hermGuard™ Molten Repel has been designed to ensure workers are protected from molten metals such as iron, aluminium, cryolite, copper, magnesium and others, and is of exceptional durability, offering enhanced protection against large and small molten metal splashes.

ThermGuard™ Molten Repel has been developed for those working in foundries and in large, heavy industrial manufacturing plants where the processes of smelting, casting, welding, cutting and grinding are common.

The fabric provides 'non-stick' and heat- and flame-resistance properties due to the combined technology of Teflon® and meta aramid. This means that molten metal splashes are simply repelled from the surface rather than sticking, providing exceptional levels of 'shedding' and durability.

Molten metal splashes can stick to the surface of several types of protective garments and conduct heat through the fabric, which can lead to serious burn injuries and/or ignition of the garment.

However, this innovative technology provides excellent shedding of molten metals, as well as being comfortable to wear and durable, retaining its properties for over 50 washes whilst continuing to achieve ISO 11612: D3 and E3.

ThermGuard™ Molten Repel has been developed in collaboration with customers, laundries and foundry end users to ensure outstanding quality and comfort is coupled with the performance requirements of ISO 11612:2008 - (A1, A2, B2, C2, D3 & E3) and ISO 11611:2007 - Class 2. It also conforms to EN ISO 6530:2005 for chemical splash protection and acid and alkali liquid penetration and meets the requirements of EN 61482-1-2:2007 - Class 2 protecting against the thermal hazards of an electric arc. ■

## ThermGuard™ High Visibility: High visibility, heat and flame resistant fabric



**T**he high visibility and flame-resistant fabric has been designed to ensure workers are highly conspicuous as well as protected against thermal hazards. ThermGuard™ High Visibility can be supplied in any EN 471 high visibility colour including GO/RT 3279.

The fabric conforms to industry standards and in particular ISO 11612: 2008 for clothing that protects against heat and flame, EN 471 GO/RT 3279 high visibility work wear and EN 61482-1-1: 2009 protection against the thermal hazards of an electric arc with an open arc rating of >8cal/cm2.

The fabric is breathable, comfortable to wear and stable to industrial washing whilst retaining excellent light, colour and wash fastness.

**Mike Fisher**, associate director of technical textiles at Toray Textiles Europe Ltd, says: "We are renowned worldwide for our technical expertise and we have dedicated time and listened to our customers to produce this new innovative fabric that offers quality and performance far exceeding other fabrics currently available. From our fully integrated weaving and dyeing manufacturing plant in the UK, we offer our customers quick response and the benefits of a bespoke sampling service to facilitate targeted developments".

ThermGuard™ High Visibility has been developed specifically for those working in industries such as utilities, rail, chemical and petrochemical and airports. ■

For more information on Toray Textiles Europe Limited, ThermGuard™ High Visibility fabric or ThermGuard™ Molten Repel fabric, please contact [sales@ttl.co.uk](mailto:sales@ttl.co.uk) or visit <http://www.ttl.co.uk>