

Product Specification Sheet

OTSQ-9

Product Description

A lightweight, comfortable and protective flame-resistant piqué T-shirt designed for demanding industrial environments.

Constructed from, a 230 g/m² knitted fabric composed of 60% modacrylic, 38% cotton and 2% carbon antistatic fibre, the T-shirt combines inherent flame resistance, antistatic performance, thermal comfort and natural cotton comfort.

Flame-resistant protection. Antistatic performance. Superior comfort for demanding work.

Material Specifications

Specification	Details
Fabric Weight	230 g/m ²
Composition	60% Modacrylic / 38% Cotton / 2% Carbon Antistatic
Fabric Construction	Knitted Piqué
Fabric Structure	Three-dimensional piqué construction
Fabric Width	1.7 m ± 2 cm
Primary Application	Heat and flame protective clothing
Flame Performance	Flame-resistant and self-extinguishing
Antistatic Performance	Carbon antistatic fibres
High-Visibility Option	Fluorescent Yellow
Additional Colours	High-Visibility Yellow and Dark Navy

Key Characteristics

Inherent Flame Resistance

The T-shirt contains 60% modacrylic, providing inherent flame-resistant properties.

OTSQ-9 is designed to be self-extinguishing and to provide protection against:

- Flame
 - Sparks
 - Radiant heat
 - ***Flame Retardant HT – Reflective tape**
-

Antistatic Performance

The fabric incorporates **2% carbon antistatic fibres** to help dissipate electrostatic charge.

*documented performance according to **EN 1149-5**.

Lightweight and Comfortable Construction

At **230 g/m²**, OTSQ-9 provides a balance between protective performance and everyday comfort.

Three-Dimensional Piqué Structure

The knitted piqué construction features a distinctive three-dimensional surface.

Enhanced Breathability

The piqué structure allows greater air circulation compared with a dense, flat fabric construction.

Moisture Management

The three-dimensional knitted structure supports moisture management.

Natural Cotton Comfort

With **38% cotton**, the fabric provides a softer and more natural feel.

Flexible Knitted Construction

The knitted fabric structure provides natural flexibility and elasticity.

Performance Benefits

- **Flame-resistant and self-extinguishing**
 - **Protection against heat and flame**
 - **Protection against sparks**
 - **Antistatic performance**
 - **Carbon antistatic fibres**
 - **Helps dissipate electrostatic charge**
 - **Suitable for ATEX and explosive-risk environments**
 - **Lightweight 230 g/m² construction**
 - **Comfortable knitted fabric**
 - **Enhanced air circulation**
 - **Three-dimensional piqué structure**
 - **Improved moisture management**
 - **Enhanced thermal comfort**
 - **Flexible construction**
 - **Flame retardant HT reflective bands**
-

Heat and Flame Protection

OTSQ-9 has documented -level performance according to **EN ISO 11612**.

- **A1** – Limited flame spread
 - **A2** – Limited flame spread
 - **B1** – Convective heat
 - **C1** – Radiant heat
 - **E1** – Molten iron splash
 - **F2** – Contact heat
-

High-Visibility Performance

OTSQ-9 in **Fluorescent Yellow** and has documented performance according to **EN ISO 20471**.

Certified Material Performance

FR-PIQUE-230 has documented fabric-level performance according to the following standards:

Standard	Protective Area
EN ISO 11612	Protection against heat and flame
EN 1149-5	Antistatic protective clothing
EN ISO 20471	High-visibility protective clothing
EN 469	Protective clothing for firefighters — structural firefighting

OEKO-TEX® STANDARD 100 Tested for harmful substances

Industrial and ATEX Applications

The combination of flame-resistant and antistatic properties makes the T-shirt suitable for consideration as part of protective clothing systems used in environments involving:

- Flammable gases
 - Flammable vapours
 - Flammable liquids
 - Potential flash-fire hazards
 - Electrostatic discharge risks
-