



TECHNICAL DATA SHEET

Tesafire 0025 – Single-Layer Firefighting Suit

General Description

Tesafire 0025 is a next-generation protective firefighting garment designed to protect firefighters against the negative effects of flame, heat and water encountered during firefighting operations.

The product integrates advanced technical textile technologies from the V-Red series, providing an optimal combination of protection, comfort and operational performance.

The garment is CE marked and certified in accordance with:

- Regulation (EU) 2016/425 – Personal Protective Equipment
- EN 469:2020 – Protective clothing for firefighters
- EN ISO 13688:2013 – Protective clothing – General requirements

Layer System

Construction: Single-layer system

Outer fabric composition:

- 75% Meta-aramid
- 23% Para-aramid
- 2% Antistatic fiber

Design and Components

- Flame-resistant reflective tapes, 50 mm, yellow/silver/yellow, cotton-backed
- Optional segmented reflective tape

- FR sewing thread (aramid)
- Heavy-duty FR zipper (metal or high-temperature resistant plastic) with protective storm flap
- FR Velcro closures
- Neck protection
- Side ventilation openings with zippers
- Knitted underarm inserts for improved breathability

Functional Characteristics for Wildland Operations

The single-layer construction provides:

- Reduced garment weight
- High breathability and moisture management
- Reduced physiological heat stress during prolonged operations
- Increased mobility in rough terrain
- Enhanced comfort during intensive physical activity

The product is suitable for wildland and vegetation firefighting as well as outdoor operational interventions.

Protection Performance

Test	Standard	Level
Heat transfer (flame)	EN ISO 9151	X2
Radiant heat transfer	EN ISO 6942	Compliant
Water penetration resistance	EN ISO 811	Y2
Water vapour resistance	EN 11092	Z2

Reinforcements and Garment Features

- Cordura® FR reinforcements at knees and elbows
- Ergonomically pre-shaped knees and elbows
- Cordura® FR reinforcements at sleeve and leg ends
- Cordura® FR shoulder reinforcements
- Aramid felt reinforcement at knees
- Double-layer shoulder reinforcement
- High-waist trousers
- Cargo side pockets with protective flaps
- Metal splash barriers at lower jacket and leg areas

Intended Use

Protective clothing for:

- Wildland and vegetation firefighting
- Outdoor emergency operations
- Long-duration interventions in high ambient temperatures

The single-layer construction ensures an optimal balance between protection level and thermal comfort while maintaining performance in operational environments.