

Technical Data

Contact

LAVA_{PRO}TM 260
powered by lenzing FR®

LAVA_{PRO}TM approved performance you can trust on!

The strong alliance of Utexbel and Lenzing, results not only in a premium high performance fabric but also provides safety and peace of mind to the end-user.

Standard

EN ISO 14116 Heat and Flame Protection

EN ISO 11612 Heat and Flame Protection

EN ISO 11611 Protection against weld sparks

EN ISO IEC 61482-2-1 Electric Arc Protection
EN ISO IEC 61482-1-1: **ATPV**

EN 1149-5 Electrostatic Properties

EN 13034 Chemical Repellency

ISO 17493 Heat Shrinkage 180°C, 260°C

Textile Durability
Tenacity/N (EN ISO 13934-1)
Tear Strength N (EN ISO 13937-2)

Sustainability/Ökotex Standard 100

LAVA_{PRO}TM

3/50I/75

A1, A2 Ltd. Flame spread
B1 Convective Heat
C1 Radiant Heat
E3 Liquid Iron Splash
F1 Contact Heat

Class 1

Class 1: 4kA
10.0 cal/cm²

Pass

Optional

Pass

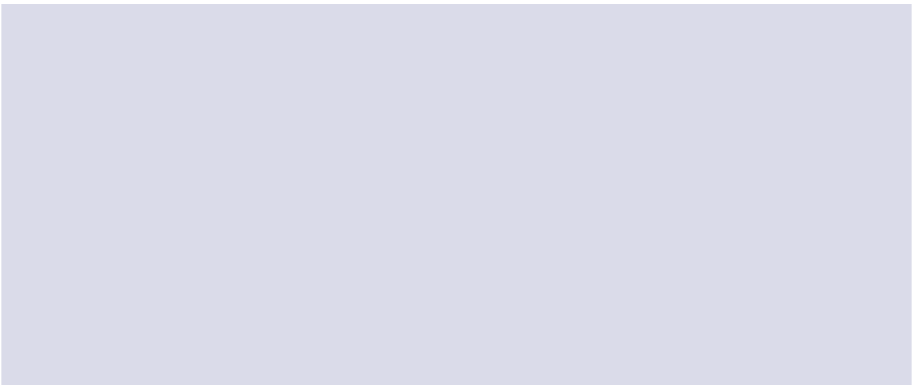
Warp/Weft
1700/1200
70/70

Class II

Approved and controlled quality in every step!

Utexbel is the largest vertically integrated fabric producer in Europe. Starting from the fiber, Utexbel is controlling not only the full production process in spinning, weaving, dyeing and finishing, but also guarantees total quality control over the complete textile production process.

For more information on LAVA_{PRO}TM fabric please contact



Applications of LAVA_{PRO}TM fabric



OIL & GAS INDUSTRY



METAL INDUSTRY



ELECTRICAL UTILITIES



WELDING

The values are given for indicative pupose only.



What is LAVA_{PRO}TM ?

Protection

Comfort

The next generation of personal protective fabrics!

LAVA_{PRO}TM was developed by Utexbel in close cooperation with Lenzing AG Austria, in order to satisfy the modern needs of the end-user. LAVA_{PRO}TM exists in a wide range of weights and protection levels.

Protection lifetime long!

LAVA_{PRO}TM is produced using inherent flame resistant fibers, resulting in fabrics, which provide protection over the lifetime of the garments.

LAVA_{PRO}TM – powered by Lenzing FR®

Main components in the LAVA_{PRO}TM fabric are Lenzing FR® and Para-Aramid. Thanks to the properties of Lenzing FR® protection and comfort are maximized to a new level of performance.

Less burns – better protection!

Extensive manikin testings at independent testing institutes, simulating flash fire exposure, have confirmed that garments made out of LAVA_{PRO}TM 260 show amazingly low amounts of transferred energy, less second degree burns and no break open compared to other available materials of the same weight. LAVA_{PRO}TM 260 fabric feels immediately cool even after severe flame and heat exposure.

Unique LAVA_{PRO}TM 260 „Air-Cushion-Effect“

Unlike other materials LAVA_{PRO}TM 260 garments do not shrink when exposed to flash fire. The garment is even expanding during flame exposure, forming a unique phenomenon of „Air-Cushion-Effect“.

LAVA_{PRO}TM is inherently comfortable!

Wearing comfort in protective clothing is an important criterion. Workers do not accept to wear protective clothing which is uncomfortable.

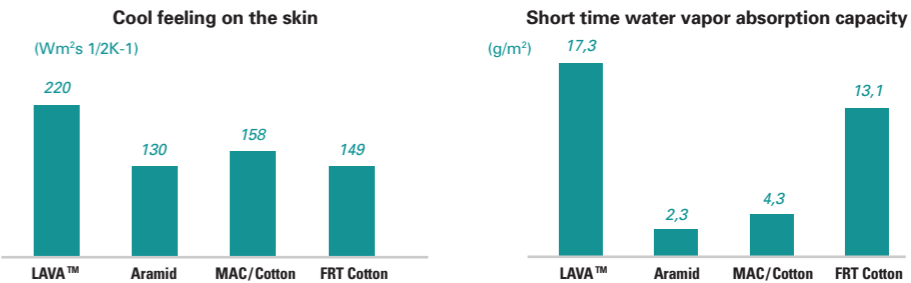
Lenzing FR® fiber, the major substance in LAVA_{PRO}TM fabric provides not only softness and a cool feeling on the skin, but also excellent moisture management performance.

For the evaluation of comfort parameters, a wide range of tests have been carried out including the skin model (hot plate) and other testing methods, to give information about the cool touch of the fabric, air permeability, moisture absorption capacity and drying speed. The outcome of these tests was, that LAVA_{PRO}TM offers superior body climate control and moisture management properties, compared to other materials, in the same weight, available on the market.



LAVA_{PRO}TM fabrics protects against electric arcs and molten iron splashes.

* 4 Seconds flame exposure



By means of the Alambeta testing method it can be measured, if fabrics feel cool to the skin. The higher the value the cooler the touch of the fabric

Short-time water vapor absorption (Fi) reflects the ability of a fabric to buffer vaporous sweat. A high Fi-value thus represents a high buffering capacity regarding vaporous sweat and a more comfortable feeling for the wearer

Better physiological performance!

The excellent body cooling properties of LAVA_{PRO}TM during physical action, resulting in a higher physiological performance, as body cooling is essential to avoid heat stress and over-heating.

End-users select LAVA_{PRO}TM because it provides a higher level of protection, and at the same time higher wearing comfort and flexibility.