

DATA SHEET



FLAME RETARDANT



SEW-ON APPLICATION

RETHIOTEX® 29 535 is a sew on reflective tape resistant to flame and heat. It has been designed to be used on fire fighters garments and fireproofed workwear (home or industrial washing with tumble drying).

For multipurpose high visibility PPE, it meets the ISO 20471(2013 + A1: 2016) after 100 industrial washing cycles at 75°C and 100 homewashing cycles at 60°C.



COMPOSITION

- Wide-angle reflective glassbeads: high and maintained retroreflection regardless the orientation.
- Substrate: 100 % cotton FR.



COLOUR AND WEIGHT

- The tape is silver-grey during the day and reflects a white colour in the night.



RETHIOTEX® 29 535:
550 g/sqm +/- 15 g



USE

- Cutting:** scissors, press, paper cutter.
- We can cut the exact needed width from 1 cm.
- Available in piping.



CONFORMITY



STANDARD
100
CQ.1127/1
IFTH

- High Visibility: EN ISO 20 471 (2013) + A1 (2016)**
 - After 100 homewashing cycles at 60°C – (ISO 6330: 2012). Washing method: 6N / Drying method F.
 - After 100 dry cleaning cycles (ISO 3175-2).
 - After 50 industrial washing cycles at 75°C + tumble drying at 90°C (ISO 15 797: 2018). Washing method: N°8 , Drying method A.
- Flame retardant properties: EN 469 (2020), EN ISO 14116 (2015), EN ISO 11611 (2015), EN ISO 11612 (2015)**
 - After 50 homewashing cycles at 60°C – (ISO 6330: 2012). Washing method: 6N , Drying method F.
 - After 50 industrial washing cycles at 75°C + tumble drying at 90°C (ISO 15 797: 2018). Washing method: N°8 , Drying method A.
- Conform to the Oeko-Tex® standard, Class 2.**



COEFFICIENT OF RETROREFLEXION

Table 4 of the EN ISO 20471 (2013) + A1 (2016) – Test report AITEX 2022EP0642.

Entrance angle \ Observation angle	5° Mini EN ISO 20471	20° Mini EN ISO 20471	30° Mini EN ISO 20471	40° Mini EN ISO 20471
12°	581,3 330	533,7 290	531,7 180	474,8 65
20°	406,2 250	394 200	376,8 170	344,1 60
1°	36,19 25	39,98 15	40,11 12	33,66 10
1°30'	24,75 10	24,61 7	25,66 5	23,73 4

Values above are non-contractual.

Coefficient of Retroreflection $cd / (lx.m^2)$



SEW

- When two or several batches or fabric rolls are used on the same surface, it is important to check that the colour and the outward appearance are alike to ensure a similar colour and reflection during both day and night.
- To sew the RETHIOTEX® 29 535 fabric on any textile support, use a needle with rounded ends and sew at 2 mm from the edge, with around 4 points. We recommend the use of a flame retardant thread.



SILK-PRINTING

- It is very easy to silk-print the RETHIOTEX® 29 535 fabric with bi-component opaque or transparent inks made from polyester.
- Given screens and drying methods implemented, we advise you to realise holding tests of inks before each production and modification of parameters.
- The ink adhesion can be easily checked by making some successive washing or a few grid patterns.

WARNING: Silk-printing involves a very important reduction of the power of reflection in concealed places.



PRESERVATION

- Store the fabric rolls in a dark and cool place and use them in the year following their reception. Fabric rolls have to be stored in their original boxes.



CARE

- The user of the RETHIOTEX® 29 535 reflective tape shall read the item's maintenance guide and ensure these instructions are respected for an optimal product's lifespan.



WARNING

- Our instructions are made according to precise and reliable criteria, however, given the diversity of the RETHIOTEX® products' applications, the buyer has to ensure the compatibility of the RETHIOTEX® product with the final project (manufacturing, design, environment in which it will be used...).
- Each certification can be modified from time to time.

For more information, feel free to contact us.



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