

Technical Data Sheet

ARC and FLAME Stopper by LENZING FR



Typical Use: Oil & Gas Sector – Petroleum - Electrical Utilities – Airlines – Oil & Gas – Petrochem

| | |
|--------------------------------|--|
| Product Name | ARC and FLAME Stopper |
| Brand: | PROMOPLUS |
| Model No: | #CALLAS230 (gen style no, will change based on final customized Styling) |
| Description | Protective Clothing with Arc & Flame Protection in Lenzing FR blend having breathable property |
| Blend: | 50% Lenzing FR 30% Modacrylic 20% Para-Aramid |
| Weight/sq.mtr (GSM) | 230 GSM (+/- 3%) |
| Standard: | NFPA 70E HRC2 (ATPV 8.0 Cal/cm2) ASTM F2621-06 ASTM F1959F NFPA 2112 ENISO 11612:2008 A1, A2, B1, C1 |
| Fabric Performance | |
| Washing Standard | According to EN ISO 6330 |
| Washing fastness | 4 (on the scale of max 5) |
| Perspiration Fastness | 4-5 (on the scale of max 5) |
| Rubbing Fastness Dry / Wet | 4 (on the scale of max 5) |
| Light Fastness | 4-5 (on the scale of max 5) |
| Garment Details: | Customized Design Coverall Coverall with 9 pockets, flap chest pockets Stitched in FR Stitching Thread FR zipper, Straps with FR Velcro, Buttons FR 2" Reflective Tape Hidden Snap , All Stress points bar-tack |
| Sizes: | S-M-L-XL-2XL-3XL-4XL-5XL, etc |
| Colors: | Navy, Grey, Red, Orange, Yellow, Pale Blue etc |
| Wash Care Instructions: | |
| Machine Wash, Max 60deg Hot |  |
| Do Not Bleach | |
| Iron, Medium | |
| Tumble Dry, Normal, Low Heat | |
| Do Not Dry-clean | |



* For any clarifications, please write to brajesh@promoplustextile.com

* Note:
Product details are as provided by reports/ certificate/ confirmations received from the manufacturer/ supplier. We do not hold responsibility in case of any accident happened due to use of supplied product beyond its properties/ characteristics as specified. The provided products details are confidential and are intend for the end user only, we have right to claim for any sales losses occurred due to sharing of our provided information with third party which is not an intend user or our competitor, or if manufacturer or distributor contacted directly.



Lenzing FR[®]
THE HEAT PROTECTION FIBER

LENZING FR[®] PROTECTION AT ELECTRIC ARCS

Lenzing FR[®] fiber with integrated heat protection may prevent from injuries when working in high voltage areas. When working there, electric arcs may cause fatal injuries due to the enormous heat which is being generated.

UNIQUE PROTECTION THANKS TO MODALIC TECHNOLOGY

Lenzing FR[®] is unique among high-performance fibers. It is made by Nature, extracted from the natural wood and is manufactured through a unique process – the Lenzing Modal technology. The heat and flame resistant properties are integrated part of the fiber and hence cannot be washed out. Around the globe, Lenzing FR[®] meets the relevant standards for heat and flame protection. After all, only Lenzing FR[®] is produced using the Lenzing Modal process which helps to attain the highest fiber tenacity and guarantees superior quality levels. Quite simply modalic with Lenzing.

LENZING FR[®] - COMPETENCE IN FABRIC DESIGN

Lenzing FR[®] Arc Stopper, a new fabric development, once more demonstrates that Lenzing FR[®] fulfills all requirements in industrial protective wear. Thus, Arc Stopper with Lenzing FR[®] meets NFPA 70E*. Arc Thermal Performance values of 8, 12 and 40 cal resp. can be reached by an adjusted fiber blend and advanced fabric construction. Further Lenzing FR[®] Arc Stopper provides very low heat shrinkage and protection against fabric break-open. Lenzing FR[®] Arc Stopper is tested and safe.

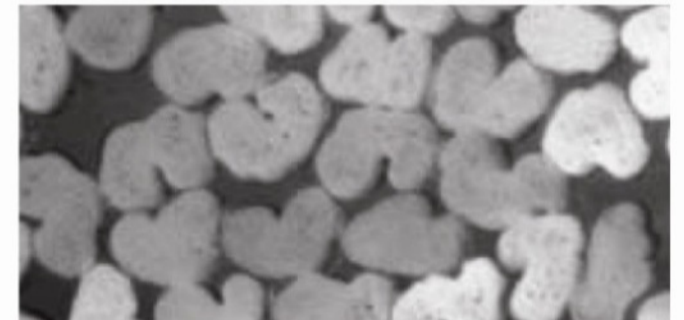
*American standard

MORE PERFORMANCE IN EXTREME SITUATIONS

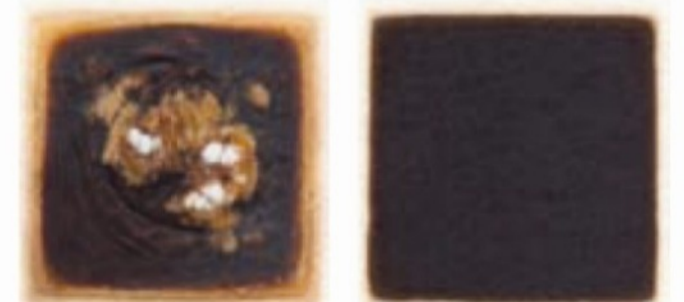
An academic study proves the superior performance of Lenzing FR[®] fabric developments. Lenzing FR[®] fabrics improve human performance. Heat, which is being generated by intense physical work, is released effectively through the protective clothing to the surroundings. Lenzing FR[®] Arc Stopper protective apparel regulates the body climate and minimizes the risk of heat stress or even heat stroke. Regulating the body climate is a prerequisite for high performance under extreme conditions.

FROM HEAD TO TOE

Perfect protective apparel deserves an overall clothing concept. Worn in layers, Lenzing FR[®] provides protection and the very best comfort. Thanks to the outstanding skin-friendliness and breathability, Lenzing FR[®] fibers can also be used in protective hoods and underwear. Protection from head to toe - only by Lenzing FR[®].



Fiber with incorporation - NEW



Brochure



Brochure



Brochure

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LEADING FIBER INNOVATION

ARC STOPPER by Westlake - powered by Lenzing FR®

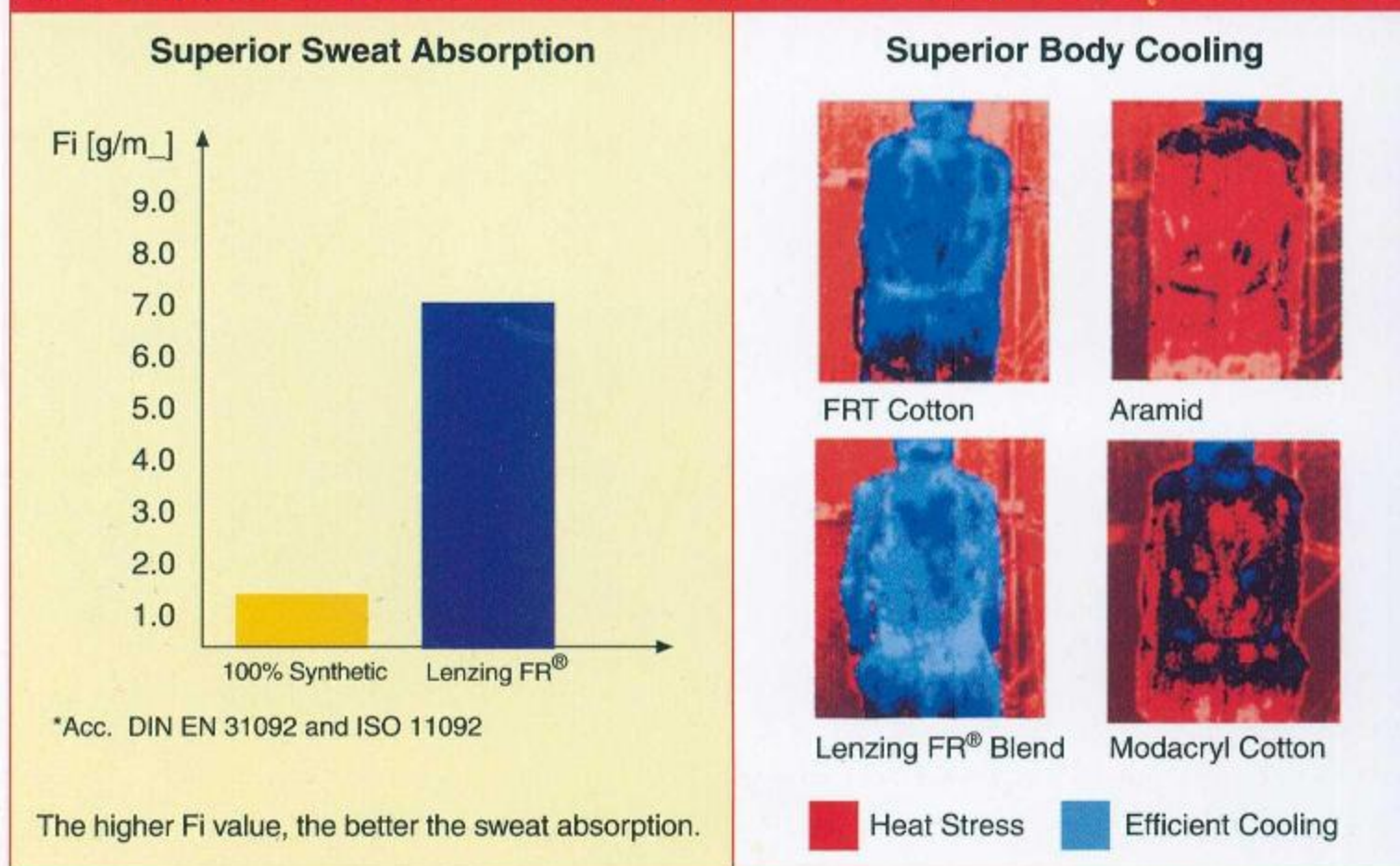


- Excellent for Electric Arc and Flash Fire Protection
- Inherently Flame Resistant. FR properties can not be removed by washing or wear.
- Unique comfort properties due to Lenzing FR®
- Industrial launderable - very durable - excellent value. High colour fastness.
- ENISO 11612 - NFPA70E - NFPA 2112 compliant

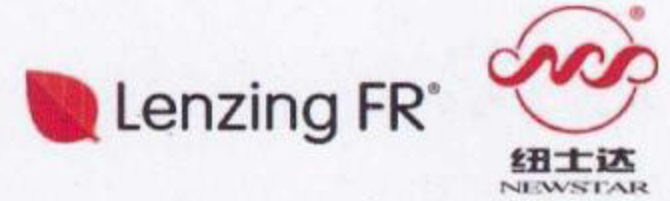
Lenzing FR® ARC STOPPER developed in China in 2008, successfully tested and certified at Kinetrics Laboratories in Canada 8cal - 12cal - 25+40cal combination.



Arc Stopper® comfort advantages over 100% Synthetic FR Fabrics



ARC STOPPER by Westlake - powered by Lenzing FR®



Composition 50% Lenzing FR® Blend

| | | |
|--|--------------|-----------|
| Weave | EN61 101 | K2/1 |
| Weight gr./m2 | EN12 127 | 235 |
| Tensile strength warp/weft N | ISO 13934-1 | 867/795 |
| Tensile elongation warp/weft % | ISO 13934-1 | 22.7/17.3 |
| Tear growth test warp/weft N | ISO 13937-2 | 21/20 |
| Air permeability L/m2/s | ISO 9237 | 85 |
| Abrasion test Martindale | ISO 12 947/2 | 70 000 |
| Pilling test of Martindale | ISO 12 947/4 | 4-5 |
| Flame test-EN ISO 15 025B | ISO 15025 | 0/0 |
| After flame time L/Cs | ISO 11612 | 0/0 |
| Dimensional Stability | ISO 6330 | +0.3/-1.0 |
| Flash Fire (manikin test) % body burn @ 3sec | ASTM 1930 | |
| Heat resistance - (500F-5min) | NFPA211 | |
| Thermal Protective Performance | (cal/cm2) | |
| Vertical Flammability | ASTM D6413 | |
| Char length WxF | | |
| After Flame WxF | | |

ARC Thermal Performance Value 8.0 Cal/m2

| END USE | STANDARD |
|-------------------|---------------|
| Electric Industry | ASTM F2621-06 |
| | ASTM F1959F |
| Flash Fire | NFPA 2112 |
| | ENISO 11612 |

Laundering/Garment Care

Protective garments need to be maintained correctly. Arc Stopper garments can be cleaned by home or industrial laundering, please contact West Lake for specifications.

DISCLAIMER

Consumers must satisfy themselves that the fabric/ garment will meet their needs or requirements. The test data was obtained under laboratory test conditions, West Lake assumes no responsibility offers no warranties on the incorrect use of this product or information.



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