

XENIOS

A new blend based on 80% of aramid, 20% of Zylon PBO and antistatic fibers

Xenios range fabrics are based on PBO fiber. This new generation of fibers gives an incomparable thermal resistance (the highest decomposition temperature in the market for available organic fibers).

This fiber also offers excellent resistance to acids, bases and solvents.

Thermal resistance

With a L.O.I of 68% (much higher than traditional fibers used in PPE), PBO fibers are particularly resistant to flame. Their combustion is impossible in a normal atmosphere. Their degradation temperature is around 650°C. An extreme resistance which allows it to keep all the properties of these fibers at very high temperatures and offers a higher level of protection to users, with a limited burn risk.

Mechanical resistance

With its molecular structure, PBO fiber is resistant to high tensile strength PBO can be vulnerable to U.V and to humidity but we can observe, that even after a lengthy time exposure to normal day light (during 6 months), the resistance properties of PBO are still higher than traditional aramid properties.

ASSETS

- . Thermal insulation
- . Integrity of the fabrics after heat and UV exposure
- . Very high mechanical characteristics
- . Use comfort



PBO ULTRA LIGHT PBO LINING	PBO TWIN SYSTEM PBO LINING	PBO TWIN SYSTEM TWIN SPACER
4255 Complex 185g/m ² + 6003 ePTFE membrane 140g/m ² + 4022 PBO lining 130g/m ²	4256 Twin system 225g/m ² + 6003 ePTFE membrane 140g/m ² + 4022 PBO lining 130g/m ²	4256 Twin system 225g/m ² + 6003 ePTFE membrane 140g/m ² + 4594 Twin spacer 200g/m ²
455g/m ² This complex represents the lightest multilayer for firefighters in the market	495g/m ²	565g/m ²



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Ref.	4255	4056 / 4256
Composition	80% Aramid 20% PBO With antistatic fibers	80% Aramid 20% PBO With antistatic fibers
Weight	185g/m ²	225g/m ²
Weave	Special Weave	Twill 2/1 Twin system
Tensile strength ISO 13934-1 Initial state	150 daN 150 daN	270 daN 270 daN
Tear strength ISO 13937-2 Initial state	35 daN 35 daN	65 daN 60 daN