

Nomex[®] Essential 450A

Nomex[®] Essential 450A fabric is engineered for pilots and air crews to offer inherent flame protection while minimizing static discharge, providing maximum comfort on land and in the air. Nomex[®] Essential 450A delivers lightweight, comfortable protection that is modeled after the US DoD MIL-C-83429B specification.

Extreme protection



Inherent flame resistance



Better protection at longer exposures and higher temperatures



Inherent protection; can't be washed out or worn away



Fabric made of strong fibers resists tears and abrasion



Extremely durable and long-lasting protective solutions



Helps provide valuable escape time



Will not melt or drip

Hazards



Flash fire

Color

Refer to fabric sample for true color representation.



Freedom sage

Weight

150 g/m² / 4.5 oz/yd²

Fiber blend

Kevlar[®], Nomex[®], antistatic fiber

Fabric construction

Plain weave

Typical physical properties (ISO, EN)

| Property | Standard | Description | Value |
|------------------|-------------|--------------|----------------------|
| Basis weight | ISO 3801 | – | 150 g/m ² |
| Tensile strength | ISO 13934-1 | Warp Weft | 1025 N 786 N |
| Tear strength | ISO 13937-2 | Warp Weft | 47 N 43 N |

Typical physical properties (ASTM)

| Property | Standard | Description | Value |
|------------------|------------|--------------|--|
| Basis weight | ASTM D3776 | – | 150 g/m ² 4.5 oz/yd ² |
| Tensile strength | ASTM D5034 | Warp Weft | 970 N (218 lbf) 738 N (166 lbf) |
| Elmendorf tear | ASTM D1424 | Warp Weft | 80 N (18 lbf) 71 N (16 lbf) |



nomex.com/protective-uniforms

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Product safety information is available upon request.

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

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