



# ULTIMATE ARC CLASS LEADING FABRIC WITH MULTI-HAZARD PROTECTION

Class leading performance

Globally compliant lightweight fabrics

Ultimate comfort, strength and safety

Latest Oekotex class 1 Protex fibre

New technology with Patent Protected blend

Dyeable to any corporate colours and Hi Vis yellow

Inherent protection for the lifetime of the fabric

Only available from licensed Protal partners

[www.protal.co.uk](http://www.protal.co.uk)



IEC 61482



|                     |                            |
|---------------------|----------------------------|
| <b>Quality Ref:</b> | <b>Protal Ultimate Arc</b> |
| <b>Composition:</b> | Protal 5                   |
| <b>Weight:</b>      | 225gsm                     |
| <b>Colour:</b>      | Navy                       |

## TECHNICAL DATA SHEET

|                                | Test Method                                 |                   | Requirement | RESULT                 |
|--------------------------------|---|-------------------|-------------|------------------------|
| <b>Arc Rating</b>              | IEC 61482-1-1                               | ATPV              |             | 14 cal/cm <sup>2</sup> |
|                                |   | EBT <sub>50</sub> |             | 15 cal/cm <sup>2</sup> |
|                                |   | ELIM              |             | 12 cal/cm <sup>2</sup> |
| <b>Heat Resistance</b>         | ISO 17943                                   | Warp              | <5.0%       | -3.6%                  |
|                                |   | Weft              | <5.0%       | -3.6%                  |
| <b>Manikin test</b>            | NFPA 2112:2018                              |                   | <50%        | 1.20%                  |
| <b>Molten Metal Splash</b>     | ISO 9150                                    |                   |             | Class 1                |
| <b>Heat Transmission</b>       | ISO 9151                                    |                   |             | B1                     |
| <b>Radiant Heat</b>            | EN ISO 6942                                 |                   |             | C1                     |
| <b>Tensile Strength</b>        | EN ISO 13934-1                              | Warp              | > 300 N     | 820 N                  |
|                                |   | Weft              | > 300 N     | 530 N                  |
| <b>Tear Strength</b>           | EN ISO 13937-2                              | Warp              | > 10 N      | 44 N                   |
|                                |   | Weft              | > 10 N      | 39 N                   |
| <b>Martindale Abrasion</b>     | ISO 12947-2                                 |                   |             | 60000                  |
| <b>Colourfastness to Light</b> | ISO 105 BO2: Navy                           |                   |             | 5                      |
| <b>Chromaticity</b>            | EN20471: High Vis Yellow                    |                   | Pass        | Pass                   |
| <b>Charge Decay</b>            | EN 1149-3                                   |                   | Pass        | Pass                   |
| <b>Dimensional Stability</b>   | EN ISO 5077<br>after 5 wash/dry<br>cycles   | Warp              | +/- 3.0%    | -2.0%                  |
|                                |   | Weft              | +/- 3.0%    | -2.0%                  |
|                                | EN ISO 5077<br>after 25 wash/dry<br>cycles  | Warp              | +/- 3.0%    | -0.5%                  |
|                                |   | Weft              | +/- 3.0%    | -2.0%                  |
|                                | EN ISO 5077<br>after 100 wash/dry<br>cycles | Warp              | +/- 3.0%    | -2.0%                  |
|                                |   | Weft              | +/- 3.0%    | -2.5%                  |

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\*\* Please note that the above data apart from EN20471 is based on testing of a Navy fabric.

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