

DATA SHEET: ARCPROTECT + FR BUFF®

GENERAL DESCRIPTION

- Multifunctional tubular fabric made of aramid, fire-resistant viscose fibres and elastomer fibers for greater comfort.
- Ideal product for jobs related with electrical industry which require protection from thermal risks arising from an electrical arc flash, in addition, protecting from heat, flames and thermal hazards in variable weather conditions.
- Product resistant to fire and antistatic, certified as Personal Protective Equipment under the standards EN ISO 13688/13, EN 1149-5/08, EN ISO 11612/15, EN 15614/07.
- Product certified according to the EN 61482-2/14 class 1, 61482-2/10 ATPV 17,70 cal/cm².

CERTIFICATIONS

Test Standards:	
Heat Resistance:	
According to EN ISO 11612/15	Pass
Limited Flame Spread:	
According to EN ISO 11612/15	A1
Convective heat:	
According to EN ISO 11612/15	B1
Radiant heat:	
According to EN ISO 11612/15	C1
Antistatic:	
According to EN 1149-5/08	Pass
Forest firefighters:	
According to EN 15614/07	Pass
Electrical Arc:	
According to Box test IEC 61482-2/14	Class 1
According to ATPV UNE-EN 61482-2/10	17,7 cal/cm ²

CE CAT II
EN ISO 13688/13



A1,B1,C1,X, X,X



*A1
*PARTIAL
PROTECTION

*IEC 61482-2/14



CLASS 1

*EN 61482-1-1
ATPV=17,7 Cal/cm²

*The electrical arc tests
are done on the fabric.

KEY FEATURES



MOISTURE
MANAGEMENT



DRIES
QUICKLY



MULTIFUNCTIONAL



ARC
FLASH



FR

DIMENSIONS

25 cm



54 cm

FABRIC COMPOSITION

Material:	
M-ARAMID	44%
FR VISCOSE	42%
TENCELL	6%
P-ARAMID	3%
ANTISTATIC FIBER	3%
ELASTANE	2%
Structure:	
Single jersey	

PACKAGING



Properties:

Mass per unit area:
UNE-EN 12127:1998 330 g/m² ±5%

Air permeability:
UNE-EN ISO 9237:1996 121,74 mm/s ±10%

Thermal Resistance (RCT):
ISO 11092: 2014 0,03055 m²K/W ±10%

Water Vapour Resistance (RET):
ISO 11092: 2014 5,34 m²Pa/W ±10%

Determination of breaking Strength and elongation:
UNE-EN ISO 13934-1:2013

Average Load (N)		Average Elongation (%)
Lengthwise 370 ±10%		Lengthwise 169 ±10%
Crosswise 260 ±10%		Crosswise 340 ±10%

Bursting strength:
ISO 13938-1:2000 205,5KPa ±2,5%

Bursting distension:
ISO 13938-1:2000 64.4 mm

Determination of dimensional change in domestic washing and drying:
UNE-EN ISO 5077:2008 + ERRATUM:2008

Washing procedure 3M (Ta=40 ±3°C) according to ISO 6330:2012
Lengthwise ≤ 5% Crosswise ≤ 5%

Resistance to pilling (martindale, 2000 cycles):
UNE-EN ISO12945-2:2001 3-4
Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics:

UNE-EN ISO 12947-2:1999/AC:2006
Testing pressure: 9kPa >100000 cycles
Until the first yarn broken

Fastness rates:

Colour fastness to domestic and commercial laundering
UNE-EN ISO 105-C06:2010 4-5

Colour fastness to perspiration (Alkaline & Acid):
UNE-EN ISO 105-E04:2013 4-5

Colour fastness to rubbing (Dry & Wet)
UNE-EN ISO 105-X12:2003 4

Colour fastness to sea water
UNE-EN ISO 105-E02:1996 4-5

(Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".)

Colour fastness to artificial light
UNE-EN ISO 105-B02:2013 method 2 6-7

(Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excelent".)