

## TECHNICAL SHEET

# ANES - trousers

## Description

- 2 back pockets,
- 2 wide front pockets,
- adjustable kneepad pockets,
- embroidered pictograms on the side pockets,
- rule pocket,
- side pocket.



#### Maintenance

Maximum wash temperature: 40°C;Do not bleach; Tumble drying possible - Drying at lower temperature, Drying in the shade; Ironing at middle temperature (max 150 °C); Dry clean with solvents on point F plus Tetrachloroethylene.

Item

V263-0-00 Navy

EN ISO 13688:2013 **Standards** 







44 - 64









Sizes

## SAFETY TECHNICAL SPECIFICATIONS

CALETT TECHNICAE OF ECH TOATTON							
	Test method	description	Cofra result	Minimum requirement / range			
Background fabric	EN ISO 1833-1977, SECTION 10	Composition:	100% cotton denim, with flame-retardant treatment				
	EN ISO 12127:1996	Fabric mass per unit area	410 g/m <sup>2</sup>				
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recording	≤30 ppm			
	EN ISO 13688:2013 4.2 (EN ISO 3071)	The pH's determination from the watery extract	pH = 6.0	3,5 ≤pH≤ 9,5			
	EN ISO 11612:2015	Heat resistance 180°C	PASS	- No layer can ignite.			
	6.2	- after Pre-Treatment		<ul> <li>No layer can melt.</li> </ul>			
	(ISO 17493)	5 wash EN ISO 6330	Max shrink -0.3%	- No layer shrinks more than5%			

Made by Workwear Technical Dept.

Version 1.0 date 01/09/2020

Drafts, rules, tables, data, directives and others informations here contained or attached to this document, are owned only by Cofra s.r.l. and must not be given or disclosed to any third party. It shall be prohibited to give, to share and to copy data contained in this notice and its relative attached documents by any subject different from the recipient according to both Article 616 of Penal Code and Personal Data Protection Code (Italian Legislative Degree n.196/2003). According to Article 98 and Article 99 of C.P.I, Cofra s.r.I will act through civil, administrative, or penal sanctions in respect of perpetrators in deference to articles 1 2 4 and successive ones of C.P.I. In case of dispute Italian exclusive jurisdiction will be apply as well as the competent court will be that one where Cofra s.r.l. has its registered office



## TECHNICAL SHEET

Equipment for determination of limited flame spreadas received  Equipment for determination of limited flame spreadafter Pre-Treatment  5 wash cycles ISO 6330  Equipment for determination of limited flame spread-	PASS LEVEL ACCORDING A1  PASS LEVEL ACCORDING A1	No Flaming to top or either side edge No Hole formation >5mm
Equipment for determination of limited flame spread after Pre-Treatment  5 wash cycles ISO 6330  Equipment for determination of limited	PASS LEVEL ACCORDING A1	No Hole formation >5mm
flame spread after Pre-Treatment  5 wash cycles ISO 6330  Equipment for determination of limited	LEVEL ACCORDING A1	No Hole formation >5mm
5 wash cycles ISO 6330  Equipment for determination of limited	A1	
Equipment for determination of limited		
		No Melting
	PASS	No Mening
	LEVEL ACCORDING	Afternoon time < 2 c
as received	A2	Afterglow time ≤2 s
	PASS	
Equipment for determination of limited flame spread	LEVEL ACCORDING	After flame time ≤ 2 s
after Pre-Treatment	A2	
Functional and ISO 2000		
5 wash cycles ISO 6330		
Determination of dimensional change	Warp -3.0%	±3% max
40°C	Weft -1,5%	
- after Pre-Treatment 5 wash EN ISO 6330		
Tensile strength	Warp : 790 N	≥ 300N
- after Pre-Treatment	Weft: 660 N	
5 Wash EN 150 6330		
Tear strength	Warp : 19 N	≥ 10N
- after Pre-Treatment	Weft: 23 N	
5 wash EN ISO 6330		
Convective heat	Sample HTI <sub>24</sub>	Level HTI <sub>24</sub>
(code letter B)	1 7.1 s 2 6.8 s	B1 ≥ 4.0s B2 ≥ 10.0s
- after Pre-Treatment	3 7.3 s	B2 ≥ 10.0s B3 ≥ 20.0s
5 washes EN ISO 6330	LLVLLBI	
Radiant heat	Sample RHTI <sub>24</sub>	Level RHTI <sub>24</sub>
(code letter C)	1 16.6 s	C1 ≥ 7.0s
- after Pre-Treatment		C2 ≥ 20.0s
5 washes EN ISO 6330		C3 ≥ 50.0s
	LLVLLOT	C4 ≥ 95.0s
Molten iron splash	Specimen [g]	Level Fe
(code letter E)	1 210 Damaged	
ofter Pro Treatment	2 129 Undamaged	E1 ≥ 60g
5 washes EN ISO 6330	9	E2 ≥ 120g
		E3 ≥ 200g
	-	
	after Pre-Treatment  5 wash cycles ISO 6330  Determination of dimensional change 40°C  - after Pre-Treatment 5 wash EN ISO 6330  Tensile strength  - after Pre-Treatment 5 wash EN ISO 6330  Tear strength  - after Pre-Treatment 5 wash EN ISO 6330  Convective heat (code letter B)  - after Pre-Treatment 5 washes EN ISO 6330  Radiant heat (code letter C)  - after Pre-Treatment 5 washes EN ISO 6330  Molten iron splash (code letter E)  - after Pre-Treatment	Equipment for determination of limited flame spread         LEVEL ACCORDING           after Pre-Treatment         A2           5 wash cycles ISO 6330         Warp -3.0%           40°C         Weft -1,5%           - after Pre-Treatment         Wweft -1,5%           5 wash EN ISO 6330         Warp : 790 N           Tensile strength         Weft: 660 N           - after Pre-Treatment         Weft: 23 N           5 wash EN ISO 6330         Warp : 19 N           Convective heat         1 7.1 s           (code letter B)         2 6.8 s           - after Pre-Treatment         3 7.3 s           5 washes EN ISO 6330         LEVEL B1           Radiant heat         Sample RHTI <sub>24</sub> (code letter C)         1 16.6 s           - after Pre-Treatment         2 16.8 s           5 washes EN ISO 6330         3 16.6 s           LEVEL C1         LEVEL C1



# TECHNICAL SHEET

	EN ISO 11611:2015	Impact of spatter	CLASS 2	Class 1
	6.8		33 drops of molten metal	15 drops of molten metal
	(ISO 9150)	after Pre-Treatment		Temperature increase of 40 K
		5 washes EN ISO 6330		
				Class 2
				25 drops of molten metal Temperature increase of 40 K
	EN ISO 11611:2015	Determination of the transmission of radiant heat	CLASS 2	Class 1: RHTI <sub>24</sub> ≥ 7s Class 2: RHTI <sub>24</sub> ≥ 16s
	6.9 (ISO 6942)	radiant riout	RHTI <sub>24</sub> 16.7s	
	(130 0342)	after Pre-Treatment		
		5 washes EN ISO 6330		
	EN ISO 11611:2015 6.10	Vertical electrical resistance	$R = 2.6 \times 10^6 \Omega$	$R>10^5 \Omega$
	(EN 1149-2)	after Pre-Treatment		
		5 washes EN ISO 6330		
ANES	EN ISO 11612:2015	Determination of maximum force to seam rupture using the grab method	400 N	≥ 225 N
	6.5.4	seam rupture doing the grab method		
	(EN ISO 13935-2)			