

**CENTROCOT**  
Innovation experience

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LAB N° 0033

## Test Report 19RA10534

of 11/07/2019

Messrs  
**3S-ARBEITSSCHUTZ GmbH**  
Ikarusstrasse 24  
Düsseldorf - DE

### Samples and identifications

**Sample 19LA15993**

Receipt date: 25/06/2019

Sample receiving date: 18/06/2019

Description: Nonwoven coverall

Article: PROTEC® COMFORT (with integrated hood) / PROTECT® COMFORT INDUSTRY (without hood)

Color: white/blue

Composition: MP (for front + sleeves): 100% polypropylene + PE coating, mass per unit area 66 g/m<sup>2</sup> / SMMS (for partial back) : 100% polypropylene, mass per unit area 52 g/m<sup>2</sup>

Sampling carried out by: customer

**Sample 19LA15993/01**

Sample 19LA15993 - Simple seam joining nonwovens: MP to MP

**Sample 19LA15993/02**

Sample 19LA15993 - Simple seam joining nonwovens: MP + SMMS

**Sample 19LA15993/03**

Sample 19LA15993 - Simple seam joining nonwovens: SMMS to SMMS

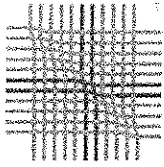
This Test Report consists of the following results

70340 Protective clothing. Seam tensile properties. Grab method

### Protective clothing. Seam tensile properties. Grab method

Product standard	UNI EN 13034:2009
Test method	UNI EN ISO 13935-2:2014 + UNI EN 14325:2005 Par. 5.5 + UNI EN 13034:2009 Par. 4.2.2
Standard atmosphere in normal conditioning	(20±2)°C - (65±4)%R.H.
Rate of extension	(50 ± 10) mm/min
Length test	(100 ± 1) mm
Specimens dimensions	(100x350) mm
Seams ready done	yes
Number of measured specimens	3
Number of discarded specimens	0
Test began on:	08/07/2019
Test ended on:	08/07/2019

Results for sample	UM	result
<b>Sample 19LA15993 - Simple seam joining nonwovens: MP to MP</b>		
1st specimen	N	89.0 b
2nd specimen	N	86.8 b
3rd specimen	N	86.0 b
Average	N	87



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Results for sample	19LA15993/02	UM	result
<b>Sample 19LA15993 - Simple seam joining nonwovens: MP + SMMS</b>			
1st specimen		N	90.5 b
2nd specimen		N	85.5 b
3rd specimen		N	85.0 b
Average		N	87
Results for sample	19LA15993/03	UM	result
<b>Sample 19LA15993 - Simple seam joining nonwovens: SMMS to SMMS</b>			
1st specimen		N	160 b
2nd specimen		N	169 b
3rd specimen		N	104 b
Average		N	140

a= fabric tear  
b= fabric tear at the jaws  
c= fabric tear at the seam  
d= breakage of sewing threads  
e= thread pull-out  
f= any combination of these

Issue date  
11/07/2019

PPE Laboratory Manager  
dott.ssa Valeria Marangoni

End of Test Report 19RA10534

PPE Testing and Certification Manager  
arch. Marco Colli