



EU type-examination certificate

for conformity assessment procedures

No. 230161

Date: 16.01.2024

Applicant: PLANAM
Arbeitsschutz-Vertriebs GmbH
Letter Straße 50
33442 Herzebrock-Clarholz
Germany

Application of: 05.05.2023

Type:

Description/
Composition

NORIT High Visibility

Men's hybrid jacket article 5900 and 5901

Women's hybrid jacket article 5905 and 5906

Outer fabric 1:

Main fabric, 245 g/m², 75% polyester / 25% cotton,
Colour hi-vis yellow and colour hi-vis orange

Outer fabric 2:

Softshell fabric, 260 g/m², 96% polyester / 4% elastane,
Colour hi-vis yellow and colour hi-vis orange

Elastic insert:

Elastic fabric, 250 g/m², 93% polyester/ 7% elastane,
colour hi-vis yellow and colour hi-vis orange

Men's pure softshell jacket article 5910 and 5911

Women's pure softshell jacket article 5915 and 5916

Outer fabric:

Softshell fabric, 260 g/m², 96% polyester / 4% elastane,
Colour hi-vis yellow and colour hi-vis orange

Elastic insert:

Elastic fabric, 250 g/m², 93% polyester/ 7% elastane,
colour hi-vis yellow and colour hi-vis orange

Men's waistband trousers article 5920 and 5921

Women's waistband trousers article 5925 and 5926

Men's dungarees article 5930 and 5931

Women's dungarees article 5935 and 5936

Outer fabric:

Main fabric, 245 g/m², 75% polyester / 25% cotton,
Colour hi-vis yellow and colour hi-vis orange

Trim material:

Trim fabric, 195 g/m², 100% nylon, colour zinc

Elastic insert:

Elastic fabric, 250 g/m², 93% polyester/ 7% elastane,
Colour zinc

Öffentliche Prüfstelle für das Textilwesen der Hochschule Niederrhein GmbH

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BIC/SWIFT: MGLSDE33

Tax number: 121/5752/5114

Commercial register Mönchengladbach HRB 15090

Ust.-Id.Nr.: DE 284 454 720

Reflective material:

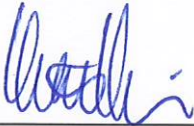
Reflective tape, CSR4003B-Z001Y

Requirement: Protective clothing according to EN ISO 13688 + A1:2021,
EN ISO 20471 + A1:2016

ÖP test report no. 230161 of 16.01.2024, ÖP-report forms and ÖP-assessments according to the above mentioned requirements. Further results which were used for the type examination: see page 2

The EU type-examination certificate according to Annex V of Regulation (EU) 2016/425 (Module B) attests that the tested protective clothing meets the essential requirements of the Regulation according to Annex II.

The EU type-examination certificate consists of 5 pages and 3 attachments.



Prof. Dr. Lutz Vossebein
certification

Test methods/-principles/-results/requirements/assessments

All testings and assessments are carried out according to Regulation (EU) 2016/425 and the harmonized standards EN ISO 13688:2013 + A1:2021 and EN ISO 20471:2013 + A1:2016.

Corresponding results:

- SGS Test Report SL52305265219501TX of 04.04.2023
- SGS Test Report SL52215301843901TX of 16.08.2022
- ÖP Test Report No. 230161 of 16.01.2024 incl. Labtech Test Report No. 172330DE of 04.08.2023

Test Feature	According to	Assessment
General requirements	EN ISO 13688	passed
Harmlessness	EN ISO 13688	passed
Design	EN ISO 13688 / EN ISO 20471	passed
Comfort	EN ISO 13688	passed
Ageing	EN ISO 13688	passed
General size designation	EN ISO 13688	passed
Labelling	EN ISO 13688 / EN ISO 20471	passed
Information of the manufacturer	EN ISO 13688 / EN ISO 20471	passed

Protective clothing: General requirements according to EN ISO 13688

Test Method	According to	Requirement	Assessment
Dimensional change after 5 washing cycles	EN ISO 5077 EN ISO 6330, 4N/A	± 3 %	passed: ÖP 230161
Durability/ readability of marking after 5 washing cycles	EN ISO 6330, 4N/A	legible	passed: ÖP 230161

High visibility clothing: Test methods and requirements according to DIN EN ISO 20471

Test Method	According to	Requirement	Assessment
Minimum areas: Art. 5900, 5901, 5905 und 5906	hybrid jacket	class 2	passed: ÖP 230161
Art. 5910, 5911, 5915 und 5916	softshell jacket	class 2	
Art. 5920, 5921, 5925 und 5926	waistband trousers	class 2	
Art. 5930, 5931, 5935 und 5936	dungarees	class 2	
Art. 5900, 5901, 5905 und 5906 in combination with Art. 5920, 5921, 5925 und 5926	hybrid jacket with waistband trousers	class 3	
Art. 5910, 5911, 5915 und 5916 in combination with Art. 5920, 5921, 5925 und 5926	softshell jacket with waistband trousers	class 3	
Art. 5900, 5901, 5905 und 5906 in combination with Art. 5930, 5931, 5935 und 5936	hybrid jacket with dungarees	class 3	
Art. 5910, 5911, 5915 und 5916 in combination with Art. 5930, 5931, 5935 und 5936	softshell jacket with dungarees	class 3	

Test Method	According to	Requirement	Assessment
Colour performance requirements	CIE 015		
• new material	Chromaticity coordinates	Table 2, acc. EN ISO 20471	passed: SGS SL52305265 219501TX, SGS SL52215301 843901TX
	Minimum luminance factor	$\beta_{\min} \leq 0,70$ resp. $\beta_{\min} \leq 0,40$	
• after Xenon test	Chromaticity coordinates	Table 2, acc. EN ISO 20471	passed: SGS SL52305265 219501TX, SGS SL52215301 843901TX
	Minimum luminance factor	$\beta_{\min} \leq 0,70$ resp. $\beta_{\min} \leq 0,40$	
• after 5 cleaning cycles	Chromaticity coordinates	Table 2, acc. EN ISO 20471	passed: SGS SL52305265 219501TX, SGS SL52215301 843901TX, ÖP 230161
	Minimum luminance factor	$\beta_{\min} \leq 0,70$ resp. $\beta_{\min} \leq 0,40$	
Colour fastness to rubbing	EN ISO 105-X12	-staining	4 passed: SGS SL52305265 219501TX, SGS SL52215301 843901TX, ÖP 230161
Colour fastness to perspiration	EN ISO 105-E04	-change of colour -staining	4 4 passed: ÖP 230161
Colour fastness to domestic and commercial laundering	EN ISO 105-C06	-change of colour - staining	4-5 4 passed: SGS SL52305265 219501TX, SGS SL52215301 843901TX, ÖP 230161
Tensile strength	EN ISO 13934-1	≥ 100 N	passed: SGS SL52305265 219501TX, ÖP 230161
Water-vapour resistance	EN ISO 11092	$R_{et} \leq 5,0$ m ² Pa/W resp. $l_{mt} \geq 0,15$	passed: ÖP 230161 incl. Labtech 172330DE
Retroreflective performance requirements	CIE 54.2		passed: SGS SL52305265 219501TX, ÖP 230161
Of new material		Table 4, acc. DIN EN ISO 20471	
After exposure			
• abrasion	EN ISO 12947-2	> 100 cd/(lx · m ²)	
• flexing	ISO 7854, method A	> 100 cd/(lx · m ²)	
• folding at low temperatures	ISO 4675	> 100 cd/(lx · m ²)	
• exposure to temperature variation	EN ISO 20471, chapter 7.4.4	> 100 cd/(lx · m ²)	
• rainfall	EN ISO 20471, annex C	> 100 cd/(lx · m ²)	
• after 5 cleaning cycles	EN ISO 6330, 4N/A	> 100 cd/(lx · m ²)	

Special notes

When applying labels and badges, it must be ensured that the minimum surface requirements according to EN ISO 20471, table 1, class 2 are not undercut.

Furthermore, it should be noted that warning protection class 3 of table 1 according to DIN EN ISO 20471 is only achieved when wearing the combination of trousers/dungarees with the corresponding jacket.

Adequacy and validity of the technical documentation

The technical documentation supplied by the applicant according to Annex III of Regulation (EU) 2016/425 has been examined.

The conformity with the requirements of the regulation is approved regarding the text in German language.

Validity of EU type-examination certificate

This EU-type examination certificate is valid subject to the validity of the requirements for the products identical to the test specimen. It expires on 16.01.2029.

An extension of validity or an adaptation of the certificate in case of a change of the requirements can be applied for.

The PPE was assigned to category II according to Annex I of Regulation (EU) 2016/425.

The manufacturer undertakes to carry out an internal production control in accordance with Annex VI of the Regulation (Module C).

The EU type-examination certificate consists of 5 pages and 3 annexes:

- SGS Test Report SL52305265219501TX of 04.04.2023
- SGS Test Report SL52215301843901TX of 16.08.2022
- ÖP Test Report No. 230161 of 16.01.2024 incl. Labtech Test Report No. 172330DE of 04.08.2023

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