RICOTEST
first in quality

TECHNICAL REPORT N. **4215007/E** date: 18/12/2023

CLIENT: **EVOC Sports GmbH**
Tegernseer Landstraβe 37A
81541 München
Germany

DP

FOR THE ATTENTION OF: Tobias Reischle

DC 17805

SAMPLING: done by the Applicant

TEST REPORTS: this document is based on Test Reports no.: 4212031/E

SAMPLES: Body armor for bike/downhill and winter sports use, art. "**PROTECTOR JACKET KID**", black color.

See the complete description on the next page.

REQUEST: Laboratory tests in accordance with me-int 097, EN 1621-1:2012, EN 1621-2:2014 for the aim of the Certification (Regulation (EU) 2016/425).

OUTCOME: **PASS**

Notes:
All results refer exclusively to the tested materials as received.
Partial reproduction or publication not admitted without written authorization by RCT.
Positive results of a test report do not imply that the tested product is "certified" or "approved" by RCT.
Comments and interpretations are of subjective nature and not part of the Test Report.
Test carried out by qualified partner lab ISO 17025.
* Test not accredited by Accredia
Conformity assessment criterion: the result is considered compliant until the value falls within or coincides with the specification limit.
Unless otherwise indicated, the test conditions correspond to the reference standard.

M22 rev08 del 01/01/2023

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DESCRIPTION:

article: "**PROTECTOR JACKET KID**", black color;
design: shirt;
external coating:
- caviar black 19-4006 lycra (JERSEY LYCRA YTC-C5466) **(1)**;
- caviar black 19-4006 stretch mesh (MESH YTC-5434) **(2)**;
- caviar black 19-4006 mesh (MESH SINGETX SK-1155) **(3)**.

internal coating (in contact with the body):
- caviar black 19-4006 lycra (JERSEY LYCRA YTC-C5466) **(1)**;
- caviar black 19-4006 stretch mesh (MESH YTC-5434) **(2)**;
- caviar black 19-4006 elastic with stone grey 4702TPX silicon print (ELS_01) **(5)**.

fastening system: by means of a lateral zipper and a caviar black 19-4006 waist band (JUMBO ELASTIC) **(4)**.
mid-layer (chest): anthracite perforated foam.

BACK PROTECTOR:
external coating: caviar black 19-4006 mesh (MESH SINGETX SK-1155) **(3)**.
internal coating: caviar black 19-4006 stretch mesh (MESH YTC-5434) **(2)**.
padding: black perforated polymeric material (LITESHIELD FLEX).

SHOULDER PROTECTOR:
external/internal coating: caviar black 19-4006 lycra (JERSEY LYCRA YTC-C5466) **(1)**;
padding: yellow partially perforated foam (SAS-TEC art. SC-K101).

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References	Tests	Measuring unit	Requirements	Results
Internal method Ricotest me-int 097-08*	**Body armor - Assembly of protectors of the trunk and upper arms**			
-	Sizing - commercial size - back: WS range - shoulder protectors - elbow protectors - chest protection	 - cm - - -	 - - Type A/Type B Type A/Type B Type A/Type B	 JS/JM/JL 33-37 A - -
-	Back protector		Accordant with EN 1621-2	Pass
-	Shoulder protectors		Accordant with EN 1621-1	Pass
-	Elbow protectors		Accordant with EN 1621-1	-
-	Chest protection		Accordant with EN 1621-3	-
EN 13688:2013 +A1:2021 4.4 4.4.1 – 4.4.2 Annex C*	Comfort		pass	Pass
Analogue method EN 13595-1:2002 6 (annex A) Prospect A.1*	Fit and ergonomics		yes	Yes
-	Protector's positioning on the body Body protected area coverage		The area of the body declared to be protected is covered adequately by each protector	Pass
Analogue method EN 14021:2003 4.5 (6.4)*	Tear strength of the fastening systems	-	All rigid attachments and straps, as well as fasteners and adjusters, shall be able to withstand a pulling force of 120 N without failure	Pass

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<table>
<tr><th>References</th><th>Tests</th><th>Measuring unit</th><th>Requirements</th><th>Results</th></tr>
<tr><td>EN 13688:2013
+A1:2021
4.2*</td><td>Innocuousness</td><td></td><td>Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.</td><td>Pass</td></tr>
<tr><td>4.2/c
ISO 3071: 2020</td><td>pH
- other materials
extracting solution: KCl</td><td colspan="3"><table><tr><th>Material</th><th>Reference: TR (Material)</th></tr><tr><td>1</td><td>4212016/E (1)</td></tr><tr><td>2</td><td>4212016/E (2)</td></tr><tr><td>3</td><td>4212016/E (3)</td></tr><tr><td>4</td><td>4212016/E (4)</td></tr><tr><td>5</td><td>4212016/E (5)</td></tr></table></td></tr>
<tr><td>4.2 d
ISO
14362-1:2017#*
textile</td><td>Azo colorants content:</td><td colspan="3"><table><tr><th>Material</th><th>Reference: TR (Material)</th></tr><tr><td>1</td><td>4212016/E (1)</td></tr><tr><td>2</td><td>4212016/E (2)</td></tr><tr><td>3</td><td>4212016/E (3)</td></tr><tr><td>4</td><td>4212016/E (4)</td></tr><tr><td>5</td><td>4212016/E (5)</td></tr></table></td></tr>
<tr><td>EN 1621-
1 :2012
5.2.2
(6.2)
(EN ISO
11642:2012 o
EN ISO 105-E01:
2013)*</td><td>Color fastness to water</td><td colspan="3"><table><tr><th>Material</th><th>Reference: TR (Material)</th></tr><tr><td>1</td><td>4212016/E (1)</td></tr><tr><td>2</td><td>4212016/E (2)</td></tr><tr><td>3</td><td>4212016/E (3)</td></tr><tr><td>4</td><td>4212016/E (4)</td></tr><tr><td>5</td><td>4212016/E (5)</td></tr></table></td></tr>
<tr><td></td><td>Information note
it shall specify that the body armor:
- is intended for use other than road motorcycles (i.e. off-road, enduro, cross, downhill)
- it was designed to be used as "stand-alone"</td><td></td><td></td><td>Pass</td></tr>
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References	Tests	Measuring unit	Requirements	Results
EN 1621-1:2012	**Motorcyclists' limb joint impact protectors**			
4 (5.3 – 6.3.1.5)*	Type of protector - declared dimension: - tested/confirmed dimension:	-	S, E, H, K, L, K+L Type A/B (table 1)	H A A
	Note: in accordance with the Customer it has been used the template "H" type A even if the intended use is S/E/K for children			
5.2 5.2.1	Innocuousness			
EN ISO 13688:2013+ A1:20214.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass
5.4	Impact test			
5.4 6.3.4.2	Impact force transmission 50J / flat impactor 40x80mm - Standard conditioning (23°C/50% r.h.)	see TR 4134936/E		
5.4 6.3.4.3	Impact force transmission 50J / flat impactor 40x80mm - Wet impact test conditioning: hydrolytic treatment 72h/+70°C/>96% r.h. + 24h/23°C	see TR 4134936/E		
-	Overall protective level	-	1/2	1
5.5 6.4 - 6.5	Ergonomic features	-	Pass	Pass
-	Protector's positioning on the body Body protected area coverage		The area of the body declared to be protected is covered adequately by the protector	Pass

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References	Tests	Measuring unit	Requirements	Results
EN 1621-2:2014	**Motorcyclists' back protectors**			
4.1*	General	-	Protectors shall be safe for use, comfortable to wear and fit for their purpose	Pass
4.2 (EN 1621-1:2012)*	Innocuousness			
EN ISO 13688:2013 +A1:2021 4.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass
4.3 (Table 1)	Type of protector	-	Full, central or lower back protector (FB, CB, LB)	FB
4.4 (5.1.6.1)	Impact force transmission 50J / bar impactor "kerbstone" - Standard conditioning (23°C/50% r.h.)	see TR 4211615.01/E		
4.4 (5.1.6.2)	Impact force transmission 50J / bar impactor "kerbstone" - Wet impact test conditioning: hydrolytic treatment 72h/+70°C/>96% r.h. + 24h/23°C	see TR 4211615.01/E		
4.4 (5.1.6.3) (optional T+)	Impact force transmission 50J / bar impactor "kerbstone" - High temperature Conditioning: 24h/+40°C	see TR 4211615.01/E		
me-int 040-01 (analogue method 4.4 - 5.1.6.4)* (Winter sport /Multisport) (optional)	Impact force transmission 50J / bar impactor "kerbstone" Conditioning: 24h/–20°C	see TR 4211615.01/E		
-	Overall protective level	-	1/2	1

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References	Tests	Measuring unit	Requirements	Results
4.5 (5.2.1)	Dangerous elements	-	No sharp edges or other features that may cause any inconvenience to the user	Pass
	Correspondence between the protective area marked on the back/lumbar protector and the extent of the body part which must be protected	-	Pass	Pass
4.5 (5.2.2)	Ergonomic features	-	Pass	Pass
	- Male tester with WS:	cm	-	33-37
4.6*	Sizing Waist-to-shoulder length (W-S) (range min-max)			
	Declared: Verified:	cm cm	- -	33-37 33-37
-	Protector's positioning on the body Body protected area coverage		The area of the body declared to be protected is covered adequately by the protector	Pass
	Innocuousness, additional chemical tests			
EN ISO 14389:2014#*	Phthalates			

Material	Reference: TR (Group)
LITESHIELD FLEX LIMB	4212016/E (C)

- End of the Technical Report -

Marco Meyer
Managing Director