



TEST REPORT

N. **4114336/E**

date: 11/11/2022

CLIENT: **SDE MOTORSPORT SRL**
Via Giorgione, 5
31030 Altivole (TV)
Italy

DP

FOR THE ATTENTION OF: Agnese Wisniewska

DC 15948

SAMPLING: done by the Applicant

SAMPLES RECEIVED: 28/10/2022

TEST PERIOD: 03-11/11/2022

SAMPLES: Boots for motorcycling use, in the following articles:
- "PHANTOM" (FORV310), black color (color code: 99), sizes 38-48;
- "PHANTOM" (FORV310), black/grey/red color (color code: 991510), sizes 42;
- "PHANTOM" (FORV310), black/grey/ fluo yellow color (color code: 991578), sizes 42;
- "PHANTOM FLOW" (FORV320), black/white color (color code: 9998), sizes 42;
- "PHANTOM FLOW" (FORV320), black color (color code: 99), sizes 38-48.

See the complete description on the next page.

REQUEST: Laboratory tests in accordance with EN 13634:2017 for the aim of the Certification (Regulation (EU) 2016/425).

OUTCOME:  **FAIL** (the negative results are shown in **bold**)

Notes:

All results refer exclusively to the tested materials.

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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 rev06 del 01/01/2022



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DESCRIPTION:

article: "PHANTOM" (FORV310), black color (color code: 99); (base model)

fastening system: by means of a lateral external zipper and a polymeric strap with a buckle;

processing: ago;

outsole: black/white rubber, black marked "FORMA";

upper:

- **(1a)** black coated microfiber (SI0294) with grey geometric designs (GEOMETRIC PHAN) coupled with white reinforcement (IR0011) and black polymeric reinforcement (IR0009);

- **(2)** black suede leather (PE0008) coupled with white reinforcement (IR0011);

- **(3a)** black coated microfiber (SI0294) with grey geometric designs (GEOMETRIC PHAN) coupled with white reinforcement (IR0011);

front joint (4a): grey perforated polymeric material (CAMBR.PHANTOM) coupled with black fabric (SI0340), black foam (IR0059) and black fleece (IR0209);

rear joint (5a): black coated microfiber (SI0294) coupled with black foam (IR0059) and black fleece (IR0209);

collar (6): black coated microfiber (SI0342);

vamp/rear/quarter lining (7): red three-dimensional mesh coupled with grey foam (FO0187);

insole: blue rigid polymeric material (MF0369);

removable insock (perforated) (8): white foam coupled with red fleece, white marked "FORMA" (MF0363), in contact with the user;

gearshift lever protective insert: black polymeric patch;

slider: grey metallic insert.

The boot has stiff inserts in polymeric material stitched onto the upper, as follows:

- shin insert: black color with white logo;
- heel insert: black/red color with additional metallic shell;
- calf insert: black color;
- lateral (external/internal) insert: black color.

article: "PHANTOM" (FORV310), black/grey/red color (color code: 991510);

This article differs from the base model in the following features:

upper:

- **(1b)** black coated microfiber (SI0294) with red/grey geometric designs (GEOMETRIC PHAN) coupled with white reinforcement (IR0011) and black polymeric reinforcement (IR0009);

- **(2)** black suede leather (PE0008) coupled with white reinforcement (IR0011);

- **(3b)** black coated microfiber (SI0294) with red/grey geometric designs (GEOMETRIC PHAN) coupled with white reinforcement.

The boot has stiff inserts in polymeric material stitched onto the upper, as follows:

- shin insert: black color with red logo;
- heel insert: black/red color with additional metallic shell;
- calf insert: black color;
- lateral (external/internal) insert: black color.



article: "PHANTOM" (FORV310), black/grey/ fluo yellow color (color code: 991578);

This article differs from the base model in the following features:

upper:

- **(1c)** black coated microfiber (SI0294) with fluo yellow /grey geometric designs (GEOMETRIC PHAN1) coupled with white reinforcement (IR0011) and black polymeric reinforcement (IR0009);
- **(2)** black suede leather (PE0008) coupled with white reinforcement (IR0011);
- **(3c)** black coated microfiber (SI0294) with fluo yellow /grey geometric designs (GEOMETRIC PHAN1) coupled with white reinforcement (IR0011);

front joint (4b): grey perforated polymeric material (CAMBR.PHANTOM) coupled with fluo yellow fabric (SI0340), black foam (IR0059) and black fleece (IR0209);

rear joint (5b): grey coated microfiber (SI0294) coupled with black foam (IR0059) and black fleece (IR0209).

The boot has stiff inserts in polymeric material stitched on the upper, as follows:

- shin insert: grey color with fluo yellow logo;
- heel insert: black/red color with additional metallic shell;
- calf insert: black color;
- lateral (external/internal) insert: black color.

article: "PHANTOM FLOW" (FORV320), black/white color (color code: 9998);

This article differs from the base model in the following features:

upper:

- **(9a)** black coated perforated microfiber (SI0294ECOST) with grey/white geometric designs (CAMUPHANTOM) coupled with white reinforcement (IR0011) and black polymeric reinforcement (IR0009);
- **(2)** black suede leather (PE0008) coupled with white reinforcement (IR0011);
- **(10a)** black coated microfiber (SI0294ECOST) with grey/white geometric designs (CAMUPHANTOM) coupled with white reinforcement (IR0011);

rear joint (11a): black coated perforated microfiber (SI0294) coupled with black foam (IR0059) and black fleece (IR0209).

The boot has stiff inserts in polymeric material stitched onto the upper, as follows:

- shin insert: black color with white logo;
- heel insert: white/red color with additional metallic shell;
- calf insert: black color;
- lateral (external/internal) insert: black color.

article: "PHANTOM FLOW" (FORV320), black color (color code: 99);

This article differs from the base model in the following features:

upper:

- **(9b)** black coated perforated microfiber (SI0294ECOST) with grey/white geometric designs (BRUSHPHANTOM) coupled with white reinforcement (IR0011) and black polymeric reinforcement (IR0009);
- **(2)** black suede leather (PE0008) coupled with white reinforcement (IR0011);
- **(10b)** black coated microfiber (SI0294ECOST) with grey/white geometric designs (BRUSHPHANTOM) coupled with white reinforcement (IR0011).

rear joint (11b): white coated perforated microfiber (SI0294) coupled with black foam (IR0059) and black fleece (IR0209).



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The material combinations of the footwear for the impact abrasion and cut resistance tests are the following ones:

- A) 1 + 6 (area A and B); see comb. C
- B) 2 + 6 (area A and B);
- C) 3 + 6 (area A and B);
- D) 4 + 6 (area A);
- E) 5 + 6 (area A);
- F) 9 + 6 (area A and B); see comb. G
- G) 10 + 6 (area A and B);
- H) 11 + 6 (area A).

Groups of materials tested for Azo-dyes content:

- Z) 2;
- Y) 1a + 5a;
- X) 1b + 1c + 9a + 9b.



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References	Tests	Measuring unit	Requirements	Results		
				38	42	48
EN 13634:2017	Protective footwear for motorcycle riders					
4.2	Design					
art. "PHANTOM"						
4.2.1 (Table 3)	Height of upper (Level 2) Measure "H2" - right - left	mm	size/height			
			37-38 / ≥165	271	294	303
			41-42 / ≥178	271	294	303
	Measure "H1" - right - left	mm	≥45 / ≥192			
			37-38 / ≥115	310	315	318
			41-42 / ≥123	310	315	318
art. "PHANTOM FLOW"						
4.2.1 (Table 3)	Height of upper (Level 2) Measure "H2" - right - left	mm	size/height			
			37-38 / ≥165	270	286	302
			41-42 / ≥178	270	286	302
	Measure "H1" - right - left	mm	≥45 / ≥192			
			37-38 / ≥115	312	324	320
			41-42 / ≥123	312	324	320
4.3	Whole footwear					
4.3.1 (EN ISO 20344:2011 p. 5.2)	Upper/outsole bond strength (if not stitched)	N/mm	≥ 4,0 (If sole tear ≥ 3,0)	art. "PHANTOM"		
				7,6	7,0	5,5
				(100% upper delamination)		
4.3.1 (EN ISO 20344:2011 p. 5.2)	Upper/outsole bond strength (if not stitched)	N/mm	≥ 4,0 (If sole tear ≥ 3,0)	art. "PHANTOM FLOW"		
				9,7	10,3	7,5
				(100% upper delamination)		
4.3.2 (ISO/TR 16178:2010*	Innocuousness	-	Shall not adversely affect the health or the hygiene of the user	Pass		



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					38	42	48															
ISO 17234-1:2020# leather	Azo colorants content:	mg/kg	absent (<30 mg/kg)		Group: Z*																	
					Pass																	
ISO 17234-2:2011# leather	Detection of the use of certain azo colorants, which may release:				Group: Z																	
	4-aminoazobenzene	mg/kg	< 30		Pass																	
* Under test conditions, 4-aminoazobenzene might break down into aniline and 1,4-Phenylenediamine. 1891 mg/kg of aniline were found in the present test sample.																						
ISO 14362-1:2017# textile	Azo colorants content:	mg/kg	absent (<30 mg/kg)		Group: Y-X																	
					Pass																	
ISO 17234-1:2020# leather	Azo colorants content:	<table><tr><th>Material</th><th>TR (Group)</th></tr><tr><td>CAMBR.PHANTOM grey amp</td><td>4014212.01/E (a)</td></tr><tr><td>SI0294 black</td><td>4014212.01/E (a)</td></tr><tr><td>FO0187 red</td><td>4014212.01/E (a)</td></tr><tr><td>MF0363</td><td>4013523/E (Y)</td></tr><tr><td>CAMBR.PHANTOM1 grey amp</td><td>4112737/E (a)</td></tr><tr><td>SI0294 7531 grey</td><td>4111804/E</td></tr></table>							Material	TR (Group)	CAMBR.PHANTOM grey amp	4014212.01/E (a)	SI0294 black	4014212.01/E (a)	FO0187 red	4014212.01/E (a)	MF0363	4013523/E (Y)	CAMBR.PHANTOM1 grey amp	4112737/E (a)	SI0294 7531 grey	4111804/E
Material		TR (Group)																				
CAMBR.PHANTOM grey amp		4014212.01/E (a)																				
SI0294 black		4014212.01/E (a)																				
FO0187 red		4014212.01/E (a)																				
MF0363		4013523/E (Y)																				
CAMBR.PHANTOM1 grey amp		4112737/E (a)																				
SI0294 7531 grey	4111804/E																					
ISO 14362-1:2017# textile																						
4.4	Upper																					
4.4.1 (EN ISO 4045:2018)	pH value (leather)	-	$\geq 3,2$		Material: 2																	
					4,30																	
	differential figure (if pH < 4)	-	$< 0,7$		-																	
4.2/a EN ISO 17075-2:2017 #	Chromium VI content (leather)	mg/kg	$\leq 3,0$		Material: 2																	
					Pass																	
4.4.4 Table 4 (EN 13595-2:2002)	Impact abrasion resistance		Level 1	Level 2	Combination:																	
					B	C	D	E														
	- Zone A	s	$\geq 1,5$	$\geq 2,5$	> 30	12,4	21,8	16,4														
	- Zone B	s	≥ 5	≥ 12	> 30	12,4	-	-														



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					38	42	48
4.4.4 Table 4 (EN 13595-2:2002)	Impact abrasion resistance		Level 1	Level 2	Combination: G H		
	- Zone A	s	≥ 1,5	≥ 2,5	12,5		18,7
	- Zone B	s	≥ 5	≥ 12	12,5		-
4.4.5 Table 6 (EN 13595-4:2002)	Impact cut resistance		Level 1	Level 2	B	C	D E
	- Zone A (2,0 m/s)	mm	≤ 25	≤ 25	-	-	0 7,6
	- Zone B (2,8 m/s)	mm	≤ 25	≤ 15	4,4	9,8	- -
4.4.5 Table 6 (EN 13595-4:2002)	Impact cut resistance		Level 1	Level 2	Combination: G H		
	- Zone A (2,0 m/s)	mm	≤ 25	≤ 25	-		0
	- Zone B (2,8 m/s)	mm	≤ 25	≤ 15	11,0		-
4.5	Lining	mat.7 see TR 4111808/E (7) and 4014212.01/E (7a)					
4.5.2 (EN ISO 20345:2011 p. 5.5.1)	Tear strength				Material: 6		
	- Leather	N		≥ 30		-	
	- Coated fabric and textile	N		≥ 15		172	
4.5.3 (EN ISO 20344:2011 p. 6.12)	Abrasion resistance				Material: 6		
	- 25 600 cycles dry	-	No hole development on the wearing surface		Pass		
	- 12 800 cycles wet	-			Pass		
4.5.6 (EN ISO 11642:2012)*	Color fastness				Material: 6		
	- Discharge			≥ 3	4/5		
	a) Acetate			≥ 3	4		
	b) Cotton			≥ 3	4		
	c) Polyamide			≥ 3	4/5		
	d) Polyester			≥ 3	4/5		
	e) Polyacrylic			≥ 3	4/5		
	f) Wool			≥ 3	5		



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4.6	Outsole						
4.6.1 (EN ISO 20344:2011 p. 8.1.2)	Outsole thickness d_1	mm	$\geq 4,0$	11,3	11,3	11,3	
	Cleated outsole - Cleat height d_2	mm	$\geq 2,5$	-	-	-	
	- Cleats design	-	cleats within the shaded area of fig.4 shall be open to the side (45%L/forepart, 25%L/heel)	-	-	-	
ISO 2781:2008 Amd 1:2010	Outsole density (method A)	g/cm ³	-	BLACK OUTSOLE 1,07			
ISO 2781:2008 Amd 1:2010	Outsole density (method A)	g/cm ³	-	WHITE OUTSOLE 1,21			
4.6.2 ISO 4649:2017 (method A)	Abrasion resistance - material with density > 0,9 g/cm ³ - material with density ≤ 0,9 g/cm ³	mm ³ mm ³	≤ 150 ≤ 250	BLACK OUTSOLE 185 -			
4.6.2 ISO 4649:2017 (method A)	Abrasion resistance - material with density > 0,9 g/cm ³ - material with density ≤ 0,9 g/cm ³	mm ³ mm ³	≤ 150 ≤ 250	WHITE OUTSOLE 144 -			
4.7 (Annex A)	Ergonomics		Pass	Pass			
4.8 (6.1)	Transverse rigidity of the whole footwear - right - left	kN	Level 1 ≥ 1,0	Level 2 ≥ 1,5	2,5 2,3	2,6 2,5	2,1 2,3
4.9 (Table 7)*	Insole construction	-	Either an insole or insock shall be present in such a way that it cannot be removed without damaging the Footwear (see acceptable options as detailed in Table 7).		Pass		



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				38	42	48
4.10	Insole and insock					
	Insole	see TR 4012105.01				
	Insock					
4.10.2.2 (EN ISO 20345:2011 p. 5.7.4.2) (EN ISO 20344:2011 p. 6.12)	Abrasion resistance - 25 600 cycles dry - 12 800 cycles wet	- -	No hole development on the wearing surface	Pass Pass		
-	Protective levels to be marked: - Height of upper - Abrasion resistance: - Impact cut resistance: - Transverse rigidity:	- - - -	1/2 1/2 1/2 1/2	art. "PHANTOM" 2 2 2 2		
-	Protective levels to be marked: - Height of upper - Abrasion resistance: - Impact cut resistance: - Transverse rigidity:	- - - -	1/2 1/2 1/2 1/2	art. "PHANTOM FLOW" 2 2 2 2		

- End of the test report -