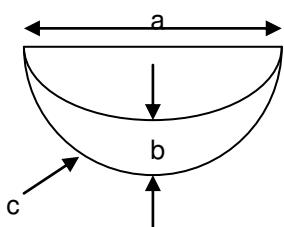


Test mark:	11924-ECS-18
Type:	Safety faceshield, visor FC73 + chinguard C3 + browguard B1

Measurement report 4

Description of the type

Design:



Dimensions:

a / mm: 222

b / mm: 189

c / mm: 393

Middle thickness of the visor:

1.0 ± 0.05 mm

Vertex power / dpt:

Front surface:

horizontal: +4.5 – vertical: 0.0

Back surface:

horizontal: - 5.3 – vertical: -0.3

Clear visor made of polycarbonate with yellow plastic Chinguard assembled on Browguard B1

Visor:

Identification mark:
BLUE EAGLE 1B CE
CAN/CSA Z 94.3
ANSI Z87+
FACESHIELD VISOR
7"x15½"x1.0mm CLEAR
POLYCARBONATE
MODEL NO. FC73

Material: Polycarbonate

Chinguard:

Identification mark:
CE EN166
CAN/CSA Z94.3
ANSI Z87 CE
MADE IN TAIWAN

Material: ABS, yellow coloured

Browguard:

Identification mark:
EN166-B CE
BLUE EAGLE
MADE IN TAIWAN

CAN/CSA Z94.3
ANSI Z87.1

Material: ABS, yellow coloured

Information brochure / instruction manual

available and complete

Test mark:	11924-ECS-18
Type:	Safety faceshield, visor FC73 + chinguard C3 + browguard B1

**Quality of material and surface, refractive powers, prism imbalance,
diffusion of light, transmission**

test ↓	sample →	18192						
		-98	-99	-100	-101	-102	-103	
quality of material and surface		+	+	+	+	+	+	
field of vision		+	+	+	+	+	+	
side protection		+	+	+	+	+	+	
face protection		+	+	+	+	+	+	
spherical refractive power	R L	dpt	-0.03 -0.02	-0.03 -0.02	-0.02 -0.03	-0.03 -0.02	-0.01 -0.01	-0.03 -0.02
astigmatic refractive power	R L	dpt	0.02 0.02	0.03 0.03	0.02 0.02	0.01 0.02	0.02 0.02	0.04 0.04
prism imbalance (horizontal / vertical)		cm/m	BO 0.15 / 0.00	BO 0.15 / 0.00	BO 0.15 / 0.00	BO 0.13 / 0.00	BO 0.15 / 0.00	BO 0.23 / 0.00
optical class			1	1	1	1	1	1
reduced luminance coefficient, diffusion of light	R L	cd/m ² lx	0.28 0.11	0.05 0.17	0.12 0.25	0.03 0.05	0.04 0.08	0.16 0.10
luminous transmittance rel NA τ		%	88.6	88.6	88.5	88.7	88.6	88.5
luminous transmittance rel D65 τ		%	88.6	88.6	88.5	88.7	88.6	88.5

Test mark:	11924-ECS-18
Type:	Safety faceshield, visor FC73 + chinguard C3 + browguard B1

Filtering action for UV-filter

EN 170

test ↓	sample →	18192					
		-98	-99	-100	-101	-102	-103
luminous transmittance rel NA τ	%	88.6	88.6	88.5	88.7	88.6	88.5
transmission 210 nm ≤ λ ≤ 313 nm	%	> 3*10 ⁻⁴	> 3*10 ⁻⁴	> 3*10 ⁻⁴	> 3*10 ⁻⁴	> 3*10 ⁻⁴	> 3*10 ⁻⁴
transmission 313 nm < λ ≤ 365 nm	%	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
transmission 365 nm < λ ≤ 405 nm	%	≤ τ	≤ τ	≤ τ	≤ τ	≤ τ	≤ τ
transmission 500 nm ≤ λ ≤ 650 nm	%	≥ 0.2τ	≥ 0.2τ	≥ 0.2τ	≥ 0.2τ	≥ 0.2τ	≥ 0.2τ
recognition of signal lights: blue, green, yellow, red		+	+	+	+	+	+
shade number UV-filter		<i>no UV-filtering action</i>					

Test mark:	11924-ECS-18
Type:	Safety faceshield, visor FC73 + chinguard C3 + browguard B1

**Quality of material and surface, refractive powers
after test to thermal ageing**

test ↓	sample →	18192		
		-98	-99	-100
quality of material and surface		no visible surface modification after thermal ageing		
spherical power	dpt	0.00	0.00	-0.01
astigmatic power	dpt	0.00	0.00	0.00
prismatic power / prism imbalance (horizontal/vertical)	cm/m	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0

**Quality of material and surface, diffusion of light, transmission
after test to UV ageing**

test ↓	sample →	18192		
		-101	-102	-103
quality of material and surface		no visible surface modification or coating depletion after UV ageing or after breathing on the surface, slight yellow color		
reduced luminance coefficient, diffusion of light	cd/m ² lx	0.02	0.02	0.03
luminous transmittance rel NA τ	%	88.0	88.1	87.9
relative change	%	0.7	0.5	0.7

Test mark:	11924-ECS-18
Type:	Safety faceshield, visor FC73 + chinguard C3 + browguard B1

Increased robustness

sample ↓	test →	test temperature / °C	test point	results
18192-104		-5	2 * frontal	+ +
18192-105		-5	2 * frontal	+ +
18192-106		-5	2 * frontal	+ +
18192-107		-5	2 * frontal	+ +
18192-108		-5	2 * frontal	+ +
18192-109		-5	2 * frontal	+ +
18192-110		+55	2 * frontal	+ +
18192-111		+55	2 * frontal	+ +
18192-112		+55	2 * frontal	+ +
18192-113		+55	2 * frontal	+ +
18192-114		+55	2 * frontal	+ +
18192-115		+55	2 * frontal	+ +

Test mark:	11924-ECS-18
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Protection against high-speed particles / resistance to medium energy impact at extremes of temperature

sample ↓	test →	test temperature / °C	test point	speed / m/s	results
18192-116		-5	left frontal, right side	≥ 120	++
18192-117		-5	left frontal, right side	≥ 120	++
18192-118		-5	right frontal, left side	≥ 120	++
18192-119		-5	right frontal, left side	≥ 120	++
18192-120		-5	right frontal, left side	≥ 120	++
18192-121		-5	left frontal, right side	≥ 120	++
18192-122		+55	left frontal, right side	≥ 120	++
18192-123		+55	left frontal, right side	≥ 120	++
18192-124		+55	right frontal, left side	≥ 120	++
18192-125		+55	right frontal, left side	≥ 120	++
18192-126		+55	right frontal, left side	≥ 120	++
18192-127		+55	left frontal, right side	≥ 120	++

Test mark:	11924-ECS-18
Type:	Safety faceshield, visor FC73 + chinguard C3 + browguard B1

Resistance to ignition

test ↓	sample →	18192
		-107 -108 -109
flammability	temperature ≥ 650 °C no ignition, no further glowing	

Resistance to corrosion

test ↓	sample →	18192
		-104 -105 -106
corrosion	no bare metal parts	

Protection against splashes of liquids

test ↓	sample →	18192
		-98 to -127
protection against splashes of liquids for face shield / visor	+	

– End of Measurement Report 4 –