

EN ISO 16321-1 MARKINGS

BOLLÉ SAFETY EYEWEAR BEARS LENS AND FRAME MARKINGS THAT ARE SPECIFIC TO EACH PRODUCT. EN ISO 16321 WILL GRADUALLY REPLACE THE PREVIOUS EN166 STANDARDS ON ALL OF OUR PRODUCTS.

ALL OF OUR NEW PRODUCTS WILL BE EN ISO 16321-1 CERTIFIED BY JANUARY 1ST 2025.



LENSMARKING

₩ UL1,2 DT 1 KN C€

BOLLÉ SAFETY
SHADE TYPE
LIGHT DETECTION
SCALE NUMBER
IMPACT RESISTANCE
EXTREME TEMPERATURE
OPTICAL CLASS
EU CERTIFICATION

FRAME MARKING

16321 ₩ UL1,2 DT 1-M 3 6 4 C€

EU CERTIFICATION

STANDARD

BOLLÉ SAFETY

LENS COMPATIBILITY

IMPACT RESISTANCE

EXTREME TEMPERATURE

HEADFORM TESTED

DROPLETS

LIQUIDS

LARGE DUST

EN166

EN ISO 16321-

Though most markings are similar between EN166 and EN ISO 16321, You will find hereafter a list of the main changes between the two standards. DTECTION AGAINST LIQUIDS: While liquids were encompassed in the '3' marking und have their own marking under EN ISO 16321 («6») displ

SPEED OF IMPACT RESISTANCE: The speed in m/s for the impact resistance has been reduced for the equivalent of the «B» & «A» markings («D» & «F» under ISO 16321)

HEADFORM: It is now required to display on the frame the headform (type & size) used.

ELECTRICAL RESISTANCE: The «8» marking no longer exists. It is not replaced.

CHEMICAL RESISTANCE: Chemical resitance can now be tested on lens and frame («CH» marking)

RADIANT HEAT RESISTANCE: Tests the variation of heat on outer and inner side of the lens when in front of a heat source (interesting for heat reflective shields)

LENS COMPATIBILITY: Frame must now display the lens versions the frame is compatible with, even if the lens may not be dismounted/replaced.

LENS MARKING

SUBJECT		DEFINITION	D	DISPONIBLE IN*		
			Glasses/ OTG	Goggles	Faceshields	
Shade Type & Scale Number	w	Lens includes W elding filter (scale varies from 1.2 to 16)		\Box		-
	U	Lens includes U V filter (scale varies from 1.2 to 5)	W			2
	R	Lens includes IR filter (scale varies from 1.2 to 10)	W			4
	G	Lens includes sun G lare filter (scale varies from 0 to 4)				5 or 6
Light Detection	L	The lens shade does not affect the detection of colour and L ights	W			С
Impact Resistance	НМ	High Mass impact: resists a 25.4mm tip projectile, 500g, falling 1.27m	W			-
	С	Low energy impact: resists a 6mm, 0.86g ball at 45m/s				F
	D	Medium energy impact: resists a 6mm, 0.86g ball at 80 m/s		\Box		B (120m/s)
	E	High energy impact: resists a 6mm, 0.86g ball at 120 m/s				A (190m/s)
Extreme Temperature	Т	Resistance to high speed particles at extreme T emperatures (-5°C / 55°C)				Т
Optical Class	1	Enhanced optical performance				1
Abrasion	K	Resistance to surface damage by fine particles				K
Fogging	N	Resistance to fogging (50°C / 8 sec.)	W			N
Chemicals	СН	Resistance to CH emicals	W			-
Thermal risk	7	Radiant heat				-
	9	Molten metal and hot solids				9

FRAME MARKING

SUBJECT		DEFINITION	DISPONIBLE IN*			SIMILARITY EN166
			Glasses/ OTG	Goggles	Faceshields	1
Lens Compatibility		List of all the compatible lenses certified with the frame	∇			-
Impact Resistance	НМ	High Mass impact: resists a 25.4mm tip projectile, 500g, falling 1.27m	W	\Box		-
	С	Low energy impact: resists a 6mm, 0.86g ball at 45m/s		\Box		F
	D	Medium energy impact: resists a 6mm, 0.86g ball at 80 m/s		\Box		B (120m/s)
	E	High energy impact: resists a 6mm, 0.86g ball at 120 m/s				A (190m/s)
Extreme Temperature	т	Resistance to high speed particles at extreme T emperatures (-5°C / 55°C)	W	\Box		Т
	1	Tests realised on a european size headform		\Box		-
	2	Tests realised on an asian size headform				-
Headform	s	Tests realised on a small size headform	W	\Box		Н
	М	Tests realised on a medium size headform		\Box		-
	L	Tests realised on a large size headform	W	\Box		-
	3	Protection against droplets		\Box		3
Environmental Risk	4	Protection against large dust particles		\Box		4
	5	Protection against gas and thin particles		\Box		5
	6	Protection against streams of liquids (Pressure: 170kPa)		\Box		3
Thermal Risk	7	Radiant heat				-
	9	Molten metal and hot solids				9
Chemicals	СН	Resistance to CH emicals	W			-

DISCOVER MORE INFORMATION ABOUT OUR TESTS AND MARKINGS



WARNING

If the C, D, E and T symbols do not apply to both the lens and frame, then the lowest level must be assigned to the complete protective eyewear.

*The possible markings varry depending on the protection area of the said product. For simplicity, we considered glasses and OTG as OPZ, goggles as EOZ, and faceshield as FPZ.