

WE
EINGEGANGEN 01. Sep. 1999

EC TYPE EXAMINATION CERTIFICATE

No. 96322S01

for eye-protector, type goggle

for paintball sports

JT Spectra Goggle

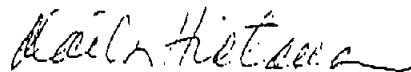
Producer: JT USA, Chula Vista, California, USA

This product complies with Directive 89/686/EEC

Vantaa, 30 April 1997



Anne Paakkari
Quality Manager



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EINGEGANGEN 01. Sep. 1999

O1ak-O
01.03.99

EG-BAUMUSTERBESCHEINIGUNG

Antragsteller: JT USA
515 Otay Road
Chula Vista, CA 91911-6059
USA

Kennbuchstabe: JT

Modell: OTG-DB Whipper

Produktart: Tragkörper für Schutzbrille (Frame for spectacle/goggle)

Prüfgrundlagen: DIN EN 166
Anhang II der Direktive 89/686/EWG

Prüfnummer: 57671-PTB-96

Schutzziel: Mechanische Risiken, Teilchen hoher Geschwindigkeit
Mechanical Risks, Resistance to high speed particles
Stoß mit mittlerer Energie, Medium energy impact

Verwendungsbereiche: Grundverwendung (Basic use) und B nach DIN EN 166

Kennzeichnung: JT 166 B CE

Gültigkeit bis: 2001-03-22

Hiermit wird bestätigt, daß das oben bezeichnete Modell den Grundlegenden Anforderungen für Gesundheitsschutz und Sicherheit der Richtlinie der Europäischen Gemeinschaften für Persönliche Schutzausrüstungen (89/686/EWG) entspricht.

DIN CERTCO
Augenschutz und Persönliche Schutzausrüstung
Notified Body 0196


Hilmar Ganser



EG-BAUMUSTERBESCHEINIGUNG

01k-O
01.03.99

Antragsteller: JT USA
515 Otay Valley Road
Chula Vista, CA 91911-6059
USA

Modell: OTG-DB Whipper
Produktart: Sicherheitssichtscheibe (Clear safety lens)
Prüfgrundlagen: DIN EN 166
Anhang II der Direktive 89/686/EWG

Prüfnummer: 57671-PTB-96
Werkstoff: Polycarbonat
Ausführung: -
Sicherheitssichtscheibe: ja
Korrektionswirkung: nein

Schutzstufe: -
Gesamtdicke: 2,3 mm
Flächenbrechwert: 4 dpt
Schichtaufbau
Frontseite: -
Zwischenschicht: -
Augenseite: -
Optische Klasse: 3

Kennzeichnung: JT 3 B CE

Gültigkeit bis: 2001-03-22

Hiermit wird bestätigt, daß das oben bezeichnete Modell den Grundlegenden Anforderungen für Gesundheitsschutz und Sicherheit der Richtlinie der Europäischen Gemeinschaften für Persönliche Schutzausrüstungen (89/686/EWG) entspricht.

DIN CERTCO
Augenschutz und Persönliche Schutzausrüstung
Notified Body 0196


Hilmar Ganser



DINCERTCO

Gesellschaft für
Konformitätsbewertung mbH



EG-BAUMUSTERBESCHEINIGUNG EC-TYPE EXAMINATION CERTIFICATE

01k-0
06.04.00

Applicant: JT USA 001174
515 Otay Valley Road
Chula Vista, CA 91911-6059
USA

Manufacturer's code: JT

Model: OTG-DB Whipper

Type of product: Sicherheitsvisierscheibe (Clear safety lens)

Test specifications: DIN EN 166
Annex II of the Directive 89/686/EEC

Test number: 57671-PTB-96

Material: Polycarbonat

Configuration: -

Safety lens: ja

Prescription lens: nein

Scale number: -

Total thickness: 2,3 mm

Curvature: 4 dpt

Composition

Front side: -

Intermediate layer: -

Inner side: -

Optical class: 3

Marking: JT 3 B CE

We herewith certify that the above-mentioned model fulfills the basic requirements for health and protection laid down in the Directive of the European Community on Personal Protective Equipment 89/686/EEC.

DIN CERTCO
Eye Protection and Personal Protective Equipment
Notified Body 0196


Hilmar Ganser



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Gesellschaft für
Konformitätsbewertung mbH



O1ak-O
01.03.99

EG-BAUMUSTERBESCHEINIGUNG
EC-TYPE-EXAMINATION CERTIFICATE

Applicant: JT USA
515 Otay Road
Chula Vista, CA 91911-6059
USA

Model: OTG-DB Whipper
Type of product: Tragkörper für Schutzbrille (Frame for spectacle/goggle)
Test specifications: DIN EN 166
Anhang II der Direktive 89/686/EWG
Test number: 57671-PTB-96
Protection against: Mechanische Risiken, Teilchen hoher Geschwindigkeit
Mechanical Risks, Resistance to high speed particles
Stoß mit mittlerer Energie, Medium energy impact
Field of use: Grundverwendung (Basic use) und B nach DIN EN 166

Marking: JT 166 B CE

We herewith certify that the above mentioned model fulfills the basic requirements for health and protection laid down in the Directive of the European Community on Personal Protective Equipment 89/686/EEC.

DIN CERTCO
Eye Protection and Personal Protective Equipment
Notified Body 0196


Hilmar Ganser



TECHNICAL DOCUMENTATION

according to

EC-Directive 89/686/EEC

for the eye and face protection

OTG-DB Whipper goggle

Softstream mask

Fullstream mask

of

JT USA

515 Otay Valley Road

Chula Vista, CA 91911

USA

CONTENT OF THE TECHNICAL DOCUMENTATION

PART 1:

**Name and address of the manufacturer and/or
his authorized agent in the Community**

PART 2:

Technical identification parameters of the product

Full plans

Detail plans

Test results with prototypes

PART 3:

List of the fundamental requirements which apply to the product

EN-Standards to be taken into account

Additional specifications to be taken into account

Technical measures by means of which the fundamental requirements are fulfilled

PART 4:

Description of the control and test equipment

PART 5:

**Information brochure
in the language of the country of destination**

Technical documentation according to Annex II of the Directive 89/686/EEC

This technical documentation specifies the fundamental requirements according to Annex II of the Directive 89/686/EEC which are valid for the product listed below and the means which

**JT USA
515 Otay Valley Road
Chula Vista, CA 91911
USA**

has used in order to achieve accordance with this product and the relevant fundamental requirements in force.

Product description:

Type of product	Goggle with face protection
Model	OTG-DB Whipper goggle Softstream mask Fullstream mask
Material of the frame	Plastic
Material of the lens	Polycarbonate
Application ranges	A according to DIN EN 166 Impact with high energy Paintball (Gotcha)

Means which JT USA has used in order to achieve accordance of the product with the fundamental requirements in force for this product.

In the following, the clause according to Annex II of the Directive 89/686/EEC, the relevant text and the means for achieving accordance with the fundamental requirements is listed.

Clause 1. General requirements applicable to all PPE

PPE must provide adequate protection against all risks encountered.

The model specified in the product description is used for the protection of the eyes and the face during paintball games. The risks are especially mechanical impacts of medium and high energies as well as splashes of liquids.

The model specified in the product description is designed as goggle with additional parts for the protection of the face and offers good protection against the above-mentioned risks. Especially the lens which is made of polycarbonate offers reliable protection against particles flying with high energy.

Clause 1.1.1 Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk-related activity normally whilst enjoying appropriate protection of the highest possible level.

Because of its tight fit the model specified in the product description offers very good protection against the risks listed in clause 1. Due to the values attained for the spherical and astigmatic power, as well as the prismatic power difference, the lenses correspond to the optical class 3 of EN 166. For persons of normal sight it can be excluded that the sensory perception is obstructed, if the product is used as intended.

The model specified in the product description fulfills all requirements of DIN EN 166: It therefore allows to carry out the intended and foreseeable activities almost unimpeded, if it is used as intended. If used as intended, the product offers a protection which is state of the art.

Clause 1.1.2 Levels and classes of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints imposed by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

The goggle as main part of the model specified in the product description fulfills the application range A according to DIN EN 166 (shooting test with a 6 mm steel ball at a speed of 190 m/s). Therefore the eye protector with face protection offers protection against medium and high mechanical impacts.

Clause 1.1.2.2 Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

Due to the fact that during paintball games mechanical impacts of medium and high energy have to be expected, for the model specified in the product description the application range A according to DIN EN 166 has been chosen.

The goggle as main part of the eye protector with face protection offers sufficient protection against particles flying with high energy as simulated by the shooting test according to DIN EN 166.

Clause 1.2.1 Absence of risks and other 'inherent' nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under foreseeable conditions of use.

The goggle and the lenses are made of materials which hardly break and even if this is the case they do not lead to any injuries of the wearer.

Clause 1.2.1.1 Suitable constituent materials

PPE materials and parts, including any of their decomposition products, must not adversely affect user hygiene or health.

The materials used for the goggle and the lenses of the specified model are, according to the actual state of the art, physiologically harmless and have no effects on the health of the user.

Clause 1.2.1.2 Satisfactory surface condition of all PPE parts in contact with the user

Any PPE part in contact or in potential contact with the user when such equipment is worn must be free of roughness, sharp edges, projections and the like which could cause excessive irritation or injuries.

The model specified in the product description has no sharp edges, tips or roughness which could lead to irritations and injuries.

Clause 1.2.1.3 Maximum permissible user impediment

Any impediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

The model specified in the product description has good optical tolerances with respect to refractive values, scattered light and the recognition of colours. In addition, the lens

has a large field of view and therefore offers a sufficient vision also in the peripheral visual fields.

Clause 1.3.1 Adaptation of PPE to user morphology

PPE must be so designed and manufactured as to facilitate correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, movements to be made and postures to be adopted. For this purpose, it must be possible to optimize PPE adaptation to user morphology by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate size range.

The model specified in the product description is anatomically designed in a way that it fits tightly to the face and the eyes' area. Different sizes of the head can be adjusted by an adjustable headband. With a correct adjustment of the headband a constant good and tight fit of the eye protector is guaranteed during the whole time of wearing.

Clause 1.3.2 Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use.

The selection of suitable materials and thicknesses ensure for the complete construction an optimum with regard to strength and lightness. The eye protector allows an almost unrestricted sight of view, and it is sufficiently stable without essentially hampering the comfort of the wearer if it is used as intended.

Clause 1.4 Information supplied by the manufacturer

In addition to the name and address of the manufacturer and/or his authorized representative established in the Community, the notes that must be drawn up by the former and supplied when the PPE is placed on the market must contain all relevant information on:

- a) **storage, use, cleaning, maintenance, servicing and disinfection. Cleaning, maintenance or disinfectant products recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;**
- b) **performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in question;**
- c) **suitable, PPE accessories and the characteristics of appropriate spare parts;**
- d) **the classes of protection appropriate to different levels of risk and the corresponding limits of use;**
- e) **the obsolescence deadline or period of obsolescence of PPE or certain of its components;**
- f) **the type of packaging suitable for transport;**
- g) **the significance of any markings (see 2.12).**

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the Member State of destination.

The information brochure valid for the product specified in the product description is given in the Annex. It specifies in detail the rules of points a) to g) and it is provided in the languages of the member states of destination.

Clause 2.3. PPE for the face, eyes and respiratory tracts

Any restriction of the user's field of vision or sight by PPE for the face, eyes or respiratory tract must be minimized.

The degree of optical neutrality of the vision systems of these PPE classes must be compatible with the type of relatively meticulous and/or prolonged activities of the user.

If necessary, they must be treated or provided with facilities to prevent moisture formation.

PPE models intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

Due to its large lens, the model specified in the product description ensures a best possible sight of view with lateral perception. The optical neutrality is given according to sufficient optical refractive powers, low scattered light and a good perception of colours.

The eye protector with face protection has, as a whole, enough ventilation slits to guarantee an antifogging use.

There is no problem to wear prescription lenses or contact lenses in combination with the eye protector.

Clause 2.4 PPE subject to ageing

If it is known that the design performances of new PPE may be significantly affected by ageing, the date of manufacture and/or, if possible, the date of obsolescence, must be indelibly inscribed on every PPE item or interchangeable component placed on the market in such a way as to preclude any misinterpretation; this information must also be indelibly inscribed on the packaging.

If a manufacturer is unable to give an undertaking with regard to the useful life of PPE, his notes must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence date, bearing in mind the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a mark to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded; failing that, the manufacturer must give this information in his notes.

The product specified is subject to normal wear and tear, i.e. cleaning, chemical attacks by cosmetics, scratches on the surfaces.

This wear and tear leads to an increase of the scattered light which, on the other hand, leads to a reduction of the detailed perception of view. For this reason, the product has a limited life time which, however, cannot be specified, because the wear and tear is immensely influenced by the wearer.

Therefore the criteria for a replacement are laid down in the enclosed information brochure.

Clause 2.12 PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of PPE must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeable useful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, when such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

The marking according to EN 166 is affixed as safety mark, as required by the EC Directive.

Control and Testing procedures

The specified product is subject to regular in-house quality controls. The following properties are checked:

- 1) Visual inspection with regard to sharp edges and sharp borders.
- 2) Visual inspection with regard to material defects and faults due to processing.
- 3) Control of the refractive powers of the lens.
- 4) Control of the mechanical stability of the lens and the goggle.