

DOC NO	ISSUE	REVISION	DATE	QUALITY PLAN
03.05	0	01	28.10.06	
PRODUCT : EYESAFETY GEAR			APPROVED BY :	
REF NO : ES 001 (SMOKED)			PRESIDENT (TECHNICAL)	



CONFORMING TO EN 166: 2001



SL. NO.	FEATURE (Tests carried out)	CHARACTERISTICS
1)	Lens Material	Polycarbonate.
2)	Field Of Vision	Exhibits minimum Field of Vision defined by two ellipses, when placed and centered at a distance of 25mm from the surface of the eyes of the spectacle. The horizontal length of the ellipses is 22.0mm; the vertical length of ellipses is 20.0mm. The pupillary distance is 64mm.
3)	Spherical Refractive Power Tolerance	Within 0.06/m
4)	Astigmatic Refractive Power Tolerance	Within 0.06/m
5)	Difference in Prismatic Refractive Power Tolerance	Horizontal Base-out= 0.75cm/m Horizontal Base-In= 0.25cm/m Vertical= 0.25cm/m
6)	Optical Class	1
7)	Maximum spectral transmittance in the Ultra Violet- 313nm	0.0003%
8)	Maximum spectral transmittance in the Ultra Violet- 365nm	0.30%
9)	Luminous transmittance in the visible spectral range	29.1% to 43.2%
10)	Lens Scale Number	5- 1.2
11)	Resistance to Low Impact Energy of High Speed particles	Withstands the impact of 6mm nominal diameter steel ball, weighing 0.86g at a speed of 45m/sec. The impacts are carried out after conditioning the eyewear to temperatures 55 degrees centigrade, and -5 degrees centigrade.
12)	Weight	Less than 28g
13)	Design	Wrap-around to cover wider area
14)	Lens Coating	Hard Coated; scratch resistant
15)	Relative visual Attenuation Quotient for signal lights red, yellow, green, blue	Not less than 0.8

EC Certificate

Type-Examination

No. CE 507490

KARAM
P N Safetech (D) Ltd
Rudrapur - 263153

Product Specification – Spectacle to EN 166:2001

Product description: Safety spectacle
Technical specifications: EN 166:2001, EN 170 and EN 172
EN 166 categorisation: Optical Class: 1
Field of use: FT Low impact energy at extreme temperatures

Model as below:

ES 001 (Clear)	EN170:2002 scale	2-1.2
ES 001 (Smoke)	EN172:1994 scale	5-2
ES 002 (Clear)	EN170:2002 scale	2-1.2
ES 002 (Smoke)	EN172:1994 scale	5-2
ES 003	EN 171:2002	4-5
ES 004	EN170:2002 scale	2-1.2
ES 005 (Clear)	EN170:2002 scale	2-1.2
ES 005 (Smoke)	EN172:1994 scale	5-2
ES 006	EN170:2002 scale	2-1.2
ES 007 (Clear)	EN170:2002 scale	2-1.2
ES 007 (Amber)	EN170:2002 scale	2-1.2

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CENTRAL LABOUR INSTITUTE
DIRECTORATE GENERAL FACTORY ADVICE SERVICE & LABOUR INSTITUTE
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MINISTRY OF LABOUR
SION, MUMBAI-400 022.

PERFORMANCE REPORT

Date : 22.01.07
File no:105/4/NRTL/TS/2006-07
Code no. : SGPNSPL-109/60

Name & Address of the Sender : M/s. P.N. Safetch Private Limited, Navi Mumbai

Specification Of Sample : Safety Goggle (Karam ES -001)

Ref No.: Nil

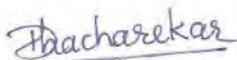
Dated : 10.01.06

Test Performance as per BIS (IS : 5983-1980)

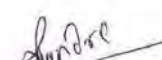
Sl.no.	Test	BIS Specification	Result	Remark
1.	Stability at elevated temperature	Eye protector shall show no apparent deformation	No deformation was observed	Meets the specification
2.	Robustness	On testing there shall be no ocular fracture	Ocular were found not Fractured	Meets the specification
3.	Power Spherical m ⁻¹	± 0.12	0.00 +0.07 0.00 +0.07	Meets the specification
	Astigmatism m ⁻¹ (Cylindrical)	± 0.12	0.00x180 0.00x180 0.00x180 -0.08x46	
4.	Luminous Transmittance	Max. - 100 % Min. - 74.4 %	93 % 74.4%	Meets the specification

Note : The Performance test report pertains only to the sample submitted for the test under reference.

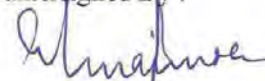
Tested By :


(D.H. Acharekar)
Lab. Assistant Gr.I

Supervised By :


(Mrs. M.K. Mandre)
Asstt. Director (IH)

Countersigned By :


(Dr. A.K. Majumdar)
Director In-charge (IH)