

EasyView Welding Lenses

The technical performance of the products is in conformity with American National Standard Z87. 1-1989 and EN166/169.

The shade range of the welding lenses is from DIN9 to DIN14 and sizes are as follows:

- 1) 50 x 107 x 3mm
- 2) 122 x 107 x 3mm

Scope and Purpose

The Standard of Lenses shall apply to those occupational and educational operations or processes where eye and face hazards exists. These include, but are not limited to, machining operations, material welding and cutting, chemical handling, and assembly operations.

Frame Tests

Frames, housings or headgear assemblies meant to hold removable lenses are fitted with test lenses and subjected to:

High Mass Test – A 500gm pointed projectile is dropped from a height of 130cm. No parts or fragments of the protector shall contact the eye of the headform.

High Velocity Tests – A 6.35mm steel ball is propelled at a speed appropriate to the projector type. No contact with the headform is allowed, nor shall any parts or fragments be ejected.

Lens Tests

Removable plano lenses, as well as prescription lenses, are capable of resisting the impact of a 25.4mm steel ball dropped 127cm. Plastic lenses are capable of resisting the impact of a weighted (44gm) needle dropped from 127cm.

Lens Thickness

Minimum Thickness of Plano Lenses is not less than 3.0mm thick.

Lens Marking

Each lens is distinctly marked in a permanent and legible manner with the applicable shade designation.

Optical Requirements

Optical requirements for plano spectacles are specified in the areas of refractive power, prismatic power and definition. Haze for lens components is not exceed 3%. Transmittance requirements are specified for clear, tinted and shaded filter lenses and windows.