



Indian Standard IS 5983:1980 – Protect your eyes using safe Eye Protectors

An Eye Protector is an equipment which includes a lens or lenses, worn in front of the eyes to provide protection for the eyes. Ocular is that part of an eye-protector through which an operator sees. IS 5983 : 1980 'Specification for eye-protectors' covers the specification for eye protectors, covering safety goggles, face shields, and other equipment designed to protect the eyes from hazards like dust, chemicals, and mechanical impacts. It outlines the requirements for **ocular materials** (glass, plastic, laminated), **filter designations** for welding, and various optical and mechanical safety standards.

This standard was first published in 1971 under the title 'Specification for protective filters for welding, cutting and similar operations. Subsequently the standard was revised to cover eye-protectors for other operations also thus making it comprehensive.

Eye-protectors and oculars are classified in this standard on the basis of their types, constructions and protection provided by them. Eye protectors are categorized as Safety goggles, Safety spectacles, Safety clip-ons, Eye, face and hand shields and Wire mesh screens. While Oculars may be of mineral, organic, or laminated type. A system to designate filters is also defined in the standard based on transmittance characteristics.

The eye protector and ocular are required to be tested for optical properties, robustness, heat stability, transmittance, flame resistance along with other requirements based on the application.

This standard IS 5983:1980 has been withdrawn and replaced by IS 8521 (Part 1) : 2022/ISO 16321-1 : 2021. The revised standard specifies general requirements for eye and face protectors which are intended to provide protection for the eyes and faces of persons against one or more common occupational hazards.