



## EUROPEAN STANDARDS

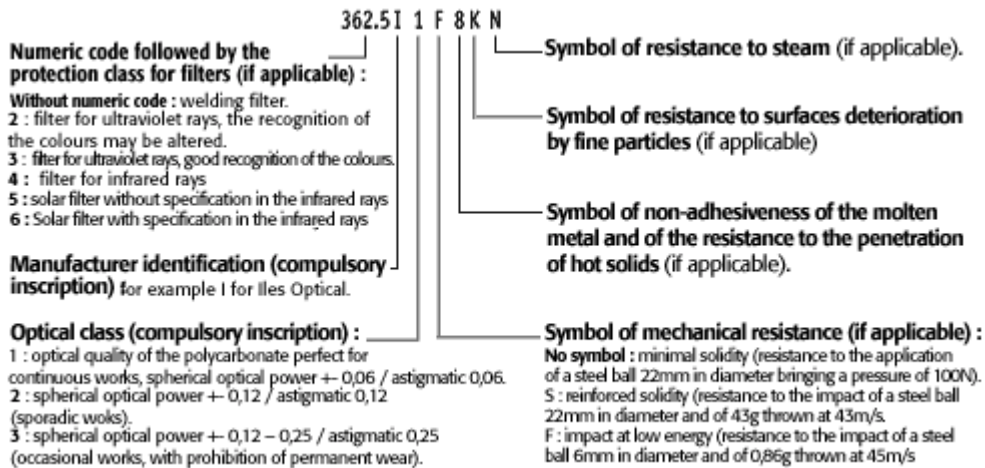
# GOGGLES AND PROTECTIVE FACESHIELDS

You will find, below, a summed up presentation of every standard applicable to goggles and protective faceshields.

- **EN166** : Personal eye-protection against various dangers.
- **EN169** : Ocular filters for welding and related techniques.
- **EN175** : Equipment for eye and face protection during welding and allied processes.

### EN166 : Personal eye-protection against various dangers.

The EN166 standard is applicable to all types of personal eye protectors used against various dangers liable to damage the eye or to alter the vision, with the exception of radiation of nuclear origin, X rays, laser beams, infrared rays @ given out by sources at low temperature. The specifications of this standard are not applicable to eye protectors for which separate and complete standards exist, such as anti-laser eye protector, all-purpose solar spectacles, etc... The eye protectors fitted with corrective lenses are not excluded from the application field.



### EN169 standard Y: Ocular filters for welding and related techniques.

The EN169 standard gives the grade numbers and the transmission specifications of the filters intended to ensure the protection of users carrying out welding, soudobrasage, arc gauging and plasma arc cutting works.

The other requirements applicable for this type of filter are featured in the EN166 standard. The specifications for the welding filters with variable protection grade or double protection grade make the subject of the EN379 standard.

**EN175 standard : Equipment for eye and face protection during welding and allied processes.**

The **EN175** standard specifies the safety requirements and test methods relating to personal protective equipment used to protect the user's eyes and face against harmful optical radiation and against other specific risks due to usual welding processes, cutting ones or other related techniques.

The present standard specifies the protection, included ergonomic aspects, against different types of risks or dangers:

- radiation,
- flammability,
- mechanical risks,
- electrical risks.

The equipment is designed to adjust protective filters with or without guard lenses or eyepiece of reinforcement, according to the recommendations of the protective equipment manufacturer for welding operations, in conformity with **EN166** and **EN169** standards or with **EN379** standard.