

# REGULATIONS

**FM(FACTORY MUTUAL):** Offers worldwide industrial and commercial product certification and testing services through its business unit FM Approvals. Recognized and respected across the globe, FM approvals certification assures customers that a product has been objectively tested and conforms to the highest national standards. The FM certification requires a fire-resistance of 10 minutes for Safety cabinets, according to the heating curve NFPA 251-1969.



**EUROPEAN NORM EN 14470-1:** It is applicable for storage of flammable and highly flammable chemicals in a laboratory. The flammables used in laboratories must be stored in one or several safety cabinets which are fire resistant 15 (minimum required), 30, 60 or 90 minutes.

**EN 14470-1**

**EUROPEAN NORM EN 14470-2:** It is applicable for storage of gas cylinders in laboratories. The gas cylinders used in laboratories must be stored in one or several safety cabinets which are fire resistant 15 (minimum required), 30, 60 or 90 minutes.

**EN 14470-2**

**NF X 15-211 - MAI 2009 NORM:** The standard indicates on the ventilation and filtration efficiency, as well as the Containment efficiency for the recirculatory fume hood designed for chemicals use in laboratories.

**NF X 15-211**

**EUROPEAN NORM EN 1869-1997:** This norm indicates that a fire blankets must be able to resist to a heat 900°C done by a fresh fuel oil (such as edible soya bean oil or rapeseed oil). The electric resistance must not be below 1 Ohm.

**EN 1869-1997**

**EUROPEAN NORM EN ISO 1182:** Indicates the test for the non flammables building materials (Thermic insulation).

**ISO 1182**

**EUROPEAN NORM EN 15154-1 AND EN 15154-2:** This regulation concerns first aid equipment and especially body showers and eye-washers, connected to water network.

**EN 15154-1 / 2**

**NT FIRE 017:** Swedish standard in as per the market of cabinets to store documents and IT furnitures. 3 sorts of fire resistance : 30, 60, and 90 minutes.

**NT Fire 017**

**GHS - Globally Harmonized System of Classification and Labelling of Chemicals** (only concerns the safety container of the chemical itself, do not apply to safety storage cabinets : is an internationally agreed-upon system, created by the United Nations. It supersedes the relevant system of the European Union, which has implemented the United Nations' GHS into EU law as the CLP Regulation and United States Occupational Safety and Health Administration standards. Not to be confused with ISO 7010 and ISO 3864.

**GHS**

**ISO 7010/ISO 3864** (Relates to the labelling affixed to the safety cabinets) : The ISO 7010 prescribes the safety signs to be used in the context of accident prevention, fire fighting and information on the risks of health's damages. The shape and color of each safety signs and the design of the graphic symbols conform to ISO 3864.

**ISO 7010 / 3864**