



# SAFETY CABINETS FOR FLAMMABLES

## GENERAL RULES:

For obvious and safety reason (fires, explosions, corrosions, intoxications,...) all dangerous chemicals have to be handled and stored with great precaution. This brochure will provide you with storage solutions for you flammables, according to your security needs. No matter what your activity area is (e.g workshop, laboratory, store-room, manufacturing premises, industrial hall,...), the products can be very flammable or them highly flammable, you must always store your chemicals safely. Do not hesitate to contact us for any personal advice.

In this catalog you will find adapted storage solutions for you flammable products according to you security constraints.. No matter your business branch (workshop, laboratory, warehouse, manufacture ...) or the degree or flammability of your products, they have to be safety stored.

Feel free to call us for a fast and personalized advice.

### What is a Safety cabinet for flammable ?

Safety cabinets for flammable protect chemicals (by extension also human beings, animals and personal belongings) from fire risks or unusual heating sources. The fire protection is assured by keeping the flammables into the cabinet.. This is done by various means: automatic doors closing (available on some of our models) and / or thermo-expanding seals of the doors allowing to isolate the internal body- or also the availability of thermo-fuses wich automatically seal off the ventilation system (EN 14470). Some models are also equipped with fire-extinguisher unit within the cabinet, thus preventing fire to break out in the Safety cabinet.

## NORMS AND REGULATION

### European Norm EN 14470-1

It is applicable for storage of flammables in laboratories and highly flammable chemicals. The flammables used in laboratories must be stored in one or several safety cabinets which are fire-resitant for 15,30,60 or 90 minutes (please refer to our catalogue « EN-14470 » : Safety cabinets tested and certified EN 14470-1 or 14470-2).

**EN 14470-1**

### FM 6050 ( FACTORY MUTUAL ) :

Offers worldwide industrial and commercial product certification and testing services through its business unit FM Approvals. Recognized and respected across the worldwide, FM Approvals certification assures customers that a product or service has been objectively tested and conforms to the highest ntaional and international standards. The certification FM requires a fire-resistance of 10 minutes for Safety cabinets, according to the heat curve NFPA 251-1969



### EN ISO 1182:

The insulation must be heat-proof and non-flammable

**NF EN ISO 1182**

## CHOOSE YOUR SAFETY CABINET ACCORDING TO YOUR ACTIVITY AND TO THE DEGRE OF FLAMMABILITY OF THE CHEMICALS YOU USE AND STORE :

PE (Flash point) <sup>(1)</sup>	Degree of flammability	Product examples	Recommended safety cabinets	
			In Industry	In Laboratories
Higher than 55°C	LITTLE FLAMMABLE	Fuel, Gas oil	Range 1, 2, 7015 <sup>(2)(3)</sup>	Range 7015 <sup>(2)(3)</sup>
Between 21°C and 55°C	FLAMMABLE	Oil of turpentine, white spirit	Range 1, 2, 3, 7030 <sup>(2)</sup>	Range 7030 <sup>(2)</sup>
Between 0°C and 21°C	EASILY FLAMMABLE	Ethanol, methanol	Range 2, 5, 760+ <sup>(2)</sup>	Range 760+ <sup>(2)</sup>
Under 0°C	EXTREMELY FLAMMABLE	Acetone, ether	Range 790+ <sup>(2)</sup>	Range 790+ <sup>(2)</sup>
Gas cylinders model B2, B5, B11, B20 et B50			Range 7630BG <sup>(2)</sup>	Range 7630BG <sup>(2)</sup>

<sup>(1)</sup>PE (Flash point): Lowest temperature at which a liquid could from gas/air mixtures, able to burn with an ignition source.

<sup>(2)</sup>Please check our brochure EN 14470 tested and certified Safety cabinets.

<sup>(3)</sup>Not appropriate for Germany

### In this part of the catalog you will find:

Safety cabinets with extinguisher for flammable products	CNPP	Range 1
FM safety cabinets for flammable products	FM 6050	Range 2
Safety storage for toxic, Noxious or Flammable products	ISO 1182	Range 3/ 5
Ventilation and Filtration Boxes	I.N.R.S.	Range V