

# Standard EN14470-1



The European standard EN 14470-1 refers to cabinets freely positioned and to wall-mounted cabinets for the storage of inflammables.

All CHEMISAFE cabinet models have undergone a destructive test in a fire room performed in an independent accredited laboratory.

## ➔ STANDARD DESCRIPTION

### ➔ FIRE TEST

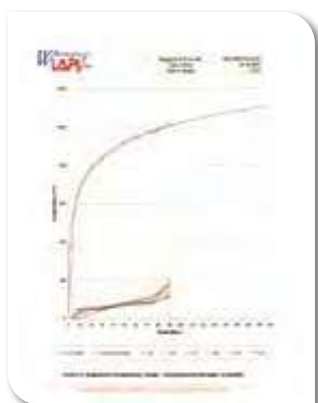
The wall of the cabinet must be positioned in the fire room at a distance of 100 mm from the wall. The fire resistance of the cabinet must be validated by the destructive test of an identical model. Possible reductions in the dimensions of the cabinet tested:

- Height and width max. 100 mm
- Depth max. 150 mm

The temperature increase inside the cabinet should not exceed 180 K or 200 °C. According to the time taken to reach this temperature, the cabinet will be classified as Type 15, 30, 60 or 90 min.

These different flammability classes allow leaving sufficient time for the staff to leave the laboratory and for the firefighters to get in before the stored flammable products may cause fire.

Each CHEMISAFE cabinet model has passed the compliance control according to standard EN14470-1 and it has the certificates of tests carried out by Bureau Veritas (BV).



Report of fire resistance test with Temperature/Time diagram. Contact thermocouple increase.

### ➔ CONSTRUCTION

The cabinet doors must close automatically in case of fire.

The side and rear walls must have the same construction and the same thickness.

On the other hand, the requirements of the standard cover the cabinet construction itself and its capacity to withstand external fire conditions (fire tests carried out according to ISO 834-1 [1] and EN 1363-1).

The tray volume must contain: at least 110 % of the volume of the largest container stored in the cabinet or 10 % of the total volume stored.



CHEMISAFE cabinet series FIRE MY11 BEFORE fire resistance test.

### ➔ SIGNALLING

The cabinets must be equipped with suitable signals: standard pictograms complying with ISO 3864 (inflammables), maximum load per shelf, fire resistance of the model (15, 30, 60 or 90 minutes).

### ➔ QUALITY CONTROL

CHEMISAFE submitted its safety cabinet manufacturing to a continuous and extremely rigorous check by Bureau Veritas.

So twice a year, BV checks the production and verifies the quality and the manufacturing process.



CHEMISAFE cabinet series FIRE MY11 AFTER fire resistance test.

CHEMISAFE will make all the cabinet documents and certifications available.

## Series FIRE MY11 Yellow

Certified according to EN14470-1  
standard Type 90 & EN16121

**FIRE-RESISTANT  
CERTIFIED**  
90 minutes (TYPE 90)



CSF232BMY11Y



CSF239BMY11Y



Painted steel shelf  
RIP60VMY11



Stainless steel shelf  
RIP60XMY11

High storage capacity

### → TECHNICAL FEATURES:

- Completely made of an electrogalvanized steel plate with a thickness of 1 - 1.5 mm, cold bent - Yellow RAL1021
- External finishing in acidproof epoxy resin and passage through a thermal tunnel at 200 °C
- Cabinet isolation through some high density rock wool panels and some calcium sulphate panels
- Internal finishing with melamine panels highly resistant to chemical and aggressive vapours
- Structure allowing replacing spare parts if necessary
- Automatic door closing when the ambient temperature exceeds 50 °C
- 30 mm thermo-expanding isolation seals which in case of temperature rise ensure a perfect cabinet sealing according to standard EN14470-1
- Air inlet and outlet with certified fire dampers closing ducts when the temperature exceeds 70 °C according to standard DIN 4102-6
- Prearrangement for ventilation through a Ø 100 mm flange for an external connection or a filtering ventilation system (see the chapter on ventilation)
- **Closing and locking system of the doors allowing keeping the doors open** and closing them automatically in case of ambient temperature higher than 50 °C
- Spark resistant hinge ensuring a perfect door solidity
- Cabinet equipped with earthing
- Leveling jacks
- Door key lock
- 3 shelves made of painted steel (**BASIC series**) or of stainless steel (**EASY series**) whose height can be adjusted, 1 retention tray with grid
- Shelf fastening on aluminium eyelets excluding all risks of spark
- Fire tested shelves
- ISO 3864 : Pictogram signalling
- Certified as fire-resistant for **90 minutes**, according to standard **EN14470-1 BV (Bureau Veritas)**
- Certified according to standard **EN16121 BV (Bureau Veritas)**

## → SERIES FIRE MY11

CODE	DESCRIPTION	EXTERNAL DIMENSIONS (WxDxH) mm	INTERNAL DIMENSIONS (WxDxH) mm	INTERNAL EQUIPMENT	STORAGE CAPACITY*	Weight (Kg)
CSF239BMY11Y**	Yellow cabinet series FIRE MY11 BASIC with 1 door	595x600x1950	496x446x1540	3 shelves made of <b>painted</b> steel (max. load 60 Kg evenly distributed) + 1 retention tray with grid (capacity 20 Litres)	80 / 100	206
CSF239MY11Y**	Yellow cabinet series FIRE MY11 EASY with 1 door	595x600x1950	496x446x1540	3 shelves made of <b>stainless</b> steel (max. load 60 Kg evenly distributed) + 1 retention tray with grid (capacity 20 Litres)	80 / 100	206
CSF232BMY11Y	Yellow cabinet series FIRE MY11 BASIC with 2 doors	1200x600x1950	1095x446x1540	3 shelves made of <b>painted</b> steel (max. load 80 Kg evenly distributed) + 1 retention tray with grid (capacity 45 Litres)	160 / 200	346
CSF232MY11Y	Yellow cabinet series FIRE MY11 EASY with 2 doors	1200x600x1950	1095x446x1540	3 shelves made of <b>stainless</b> steel (max. load 80 Kg evenly distributed) + 1 retention tray with grid (capacity 45 Litres)	160 / 200	346

\*Approximate capacity in bottles holding 1 litre per cabinet

\*\*Left door opening. Add «D» to the item code for the right door opening

## → INTERNAL EQUIPMENT (optional)

CODE	DESCRIPTION	DIMENSIONS (WxDxH) mm	RETENTION VOLUME (LITRES)	STORAGE CAPACITY*
RIP60VMY11	Additional shelf made of <b>painted</b> steel for cabinet with 1 door <b>W600</b>	493x420x39	7	20 / 25
RIP120VMY11	Additional shelf made of <b>painted</b> steel for cabinet with 2 doors	1094x420x39	16	44 / 55
RIP60MY11	Additional shelf made of <b>stainless</b> steel for cabinet with 1 door <b>W600</b>	493x420x39	7	20 / 25
RIP120MY11	Additional shelf made of <b>stainless</b> steel for cabinet with 2 doors	1094x420x39	16	44 / 55
S60S	Frame for pull-out shelf for fire 60 (shelf not included)			
RIP60VS	Additional sliding shelf made of <b>painted</b> steel for S60S	394x420x39	7	20 / 25
RIP60IS	Additional sliding shelf made of <b>stainless</b> steel for S60S	394x420x39	7	20 / 25
S120S	Frame for pull-out shelf for fire 120 (shelf not included)			
RIP120VS	Additional sliding shelf made of <b>painted</b> steel for S120S	925 x420x39	16	44 / 55
RIP120IS	Additional sliding shelf made of <b>stainless</b> steel for S120S	925 x420x39	16	44 / 55
RIPGI	Additional rotating shelf for cabinet with 1 door			
PS50SMY11	Replacement system with closing thermal fuse - left door	-	-	-
PS50MY11	Replacement system with closing thermal fuse - right door	-	-	-
ZOCPAL60MY11	Pallet truck base plate <b>W600</b>	595x600x110	-	-
ZOCPAL120MY11	Pallet truck base plate <b>W1200</b>	1200x600x110	-	-
CHEMIROLL	Wheel board to move the cabinets (the code ZOCPALMY11 is necessary)	-	-	-
CSFR127	Internal cooling system of the storage cabinet for products with a low flammability degree for high cabinet with 1 door <b>W600</b>	-	-	-
CSFR128	Internal cooling system of the storage cabinet for products with a low flammability degree for high cabinet 2 doors	-	-	-
AT100	Visual and audible alarm system with telephone transmission equipped with a digital thermostat with a T probe (°C) inside the cabinet			
TIM24	Daily counter	-	-	-
ESTINTORE	Internal carbon dioxide fire-extinguisher with automatic thermal tripping (62 °C)	Ø 90x280	-	-

\*Approximate capacity in bottles holding 1 litre

## → VENTILATION (optional)\*

CODE	DESCRIPTION	DIMENSIONS (WxDxH) mm
DIAM125BP	Fresh air box with filter holding box for high cabinet with 1 or 2 doors - outlet Ø: 125 mm (filter excluded)	290x290x270
CSF100BPAMY11	Fresh air box <b>ATEX</b> with power cable and filter box - outlet diam. 125 mm	350x370x500
RSOL	Activated charcoal filter for organic solvents - series FIRE MY11 (to replace at least 3 times a year)	235x110x15
GFKIT100	External connection kit (1 metre of hose diam. 100 mm and 2 clamps)	Ø 100 - W 1000 mm
CFN	Fresh air box with molecular filtration according to standard NFX15-211, with visual and audible alarm	550x500x220
CFNL	Molecular filtration box manufactured, without alarm	550x500x220
CFNCO	Hour counter for CFN	
CSAS	Activated charcoal filter for solvents (prefilter included)	510x405x60
CSBE	Activated charcoal filter for acids (prefilter included)	510x405x60
CSMP	Activated charcoal filter for solvents and acids (prefilter included)	510x405x60
CSPF	Prefilter	510x405x15
CSPFO	ACTIVATED carbon filter for FORMALINE (for CFN)	

\*To obtain the complete list of the connection accessories, see the chapter on ventilation of this catalogue and the current price list