

Comparison Of Safety Storage Cabinets For Flammables





Today flammables are used in most laboratory and industrial environments. Storing these materials improperly poses great risk for people and property.

While there is a large variety of storage cabinets for flammables available on the market, it is often a challenge for the users to select the appropriate product for their particular application or situation.

The following comparison is intended to help understanding the advantages and disadvantages of the different standards and aid in making the right decision for a safer workplace.



Watch the video on:
YouTube/asecosChannel



OVERVIEW

<i>Storage of flammables</i>	NOT SUITABLE Safety containers mandatory	SUITABLE Safety containers recommended	SUITABLE NO RESTRICTIONS	
<i>Insulation</i>	NO INSULATION	AIR INSULATION	FIRE RESISTANT BOARDS	
<i>Certification</i>	NONE	THIRD PARTY CERTIFICATION (FM 6050, UL 1275)	EN 14470-1	
<i>Fire resistance (Minutes)</i>	0	10	30	90
<i>Disaster risk</i>	VERY HIGH	MEDIUM	LOW	NONE
<i>Legal consequences and personal liability</i>			EN GS FM 	
	NO SAFETY			MAXIMUM SAFETY

PROTECTION/MIN



STRUCTURE

Single-walled sheet steel

TECHNOLOGY

OBSOLETE



SAFETY ASPECTS

- 1 Sealed door gaps **X NO**
- 2 Self-closing doors **X NO**
- 3 Insulation **X NO**
- 4 Defined air flow **X NO**
- 5 Similar fire performance as a store room **X NO**
- 6 Maximum flexibility when choosing point of use **X NO**

YOUR SAFETY CHECKLIST

1. Type of building	2. Location	3. Evacuation time	4. Legal consequences
NONE	NONE	0 minutes fire resistance gives no chance at all • to evacuate the building • for rescue forces to enter the building	NO PROPERTY INSURANCE • Unlimited personal liability

ADDITIONAL POINTS TO CONSIDER

DO NOT USE SUCH CABINETS FOR STORING FLAMMABLES



PROTECTION/MIN



STRUCTURE

Double-walled sheet steel third party certified

TECHNOLOGY

BASIC



SAFETY ASPECTS

- 1 Sealed door gaps **X NO**
- 2 Self-closing doors **✓ YES** • Either permanent self-closing or self-closing in case of fire in combination with door holding mechanism
- 3 Insulation **✓ YES** • Air insulation
- 4 Defined air flow **X NO**
- 5 Similar fire performance as a store room **X NO**
- 6 Maximum flexibility when choosing point of use **X NO**

YOUR SAFETY CHECKLIST

1. Type of building	2. Location	3. Evacuation time	4. Legal consequences
SMALLER / MIDSIZE • Production facilities • Factory buildings • Shop floors	GROUND FLOOR • Easy to escape	10 minutes fire resistance gives • little time to evacuate the building • no time for rescue forces to enter the building	ONLY SOME PROPERTY INSURANCES • Personal liability

ADDITIONAL POINTS TO CONSIDER

- + Minor quantities
- + Fire department close by
- + Safety cans highly recommended
- + Sprinkler system

PROTECTION/MIN

30

SAFETY ASPECTS

1	Sealed door gaps	✓ YES
2	Self-closing doors	✓ YES
3	Insulation	✓ YES
4	Defined air flow	✓ YES
5	Similar performance as a store room	✗ NO
6	Maximum flexibility when choosing point of use	✗ NO



STRUCTURE

Fire-resistant boards

TECHNOLOGY

ADVANCED

YOUR SAFETY CHECKLIST

1. Type of building

MIDSIZE / LARGER

- Laboratories small and medium sized



2. Location

UP TO FIRST FLOOR

- Fire brigade close by



3. Evacuation time

30 minutes fire resistance gives limited time to

- evacuate the building
- for rescue forces to enter the building



4. Legal consequences

ACCEPTED
BY MOST INSURANCE COMPANIES

- Reduced personal liability



ADDITIONAL POINTS TO CONSIDER

- + Larger quantities permissible
- + One cabinet per work room (recommended)

PROTECTION/MIN

90

SAFETY ASPECTS

- 1** Sealed door gaps **✓ YES**
- 2** Self-closing doors **✓ YES**
- 3** Insulation **✓ YES**
- 4** Defined air flow **✓ YES**
- 5** Similar performance as a store room **✓ YES**
- 6** Maximum flexibility when choosing point of use **✓ YES**

STRUCTURE

Highly-insulated calcium sulfate boards

TECHNOLOGY

LATEST



YOUR SAFETY CHECKLIST

1. Type of building

ANY SIZE AND TYPE

- Open space laboratories
- High risk areas



2. Location

ANYWHERE

- High rises
- Remote areas



3. Evacuation time

90 minutes fire resistance gives sufficient time to

- evacuate the building
- enter the building for fire-fighting measures and rescue operations



4. Legal consequences

FULL ACCEPTANCE BY INSURANCE COMPANIES

- Reduces personal liability as much as possible



ADDITIONAL POINTS TO CONSIDER

NONE





BE ON THE SAFE SIDE
ALWAYS CONSIDER:

1 *Distance*

2 *Surroundings*

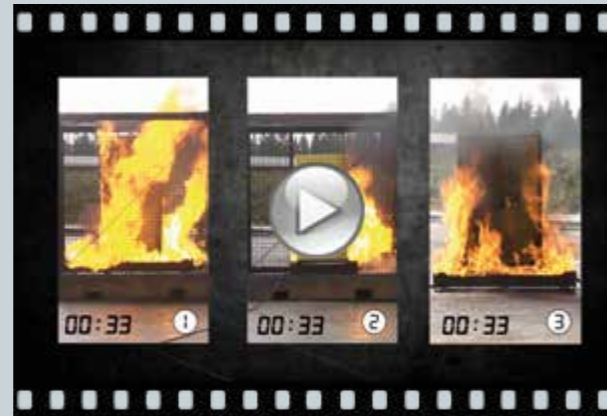
3 *Evacuation Times*

4 *Economic Impact*





**Watch the Video:
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For Flammables**



You Tube

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asecoschannel](http://www.youtube.com/asecoschannel)



Source: WALDNER Laboreinrichtungen GmbH & Co.KG



Source: Endress+Hauser, Reinach



Source: Klinikum, Fulda



Source: Wesemann GmbH

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