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INFORMATION

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.

asecos® | CABINET COMPARISON

Watch the video on:
YouTube/asecosChannel

OVERVIEW

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

NO SAFETY → MAXIMUM SAFETY

PROTECTION/MIN

0

STRUCTURE

Single-walled sheet steel

TECHNOLOGY

OBSOLETE

SAFETY ASPECTS

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

10

STRUCTURE

Double-walled sheet steel third party certified

TECHNOLOGY

BASIC

SAFETY ASPECTS

1	*Sealed door gaps*	✗ 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*	✗ NO	
5	*Similar fire performance as a store room*	✗ NO	
6	*Maximum flexibility when choosing point of use*	✗ 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*
+ *Safety cans highly recommended*
+ *Fire department close by*
+ *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	TECHNOLOGY
Fire-resistant boards	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	TECHNOLOGY
Highly-insulated calcium sulfate boards	LATEST

YOUR SAFETY CHECKLIST

1. *Type of building*

ANY SIZE AND TYPE

- Open space laboratories
- High risk areas

2. *Location*

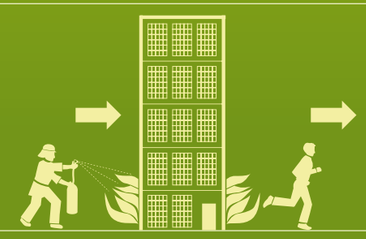
ANYWHERE

- 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*

VIDEO

Watch the Video: Comparison Of Safety Storage Cabinets For Flammables

YouTube

www.youtube.com/
asecoschannel

Source: WALDNER Laboreinrichtungen GmbH & Co.KG

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