

SciMatCo

SCIENTIFIC MATERIALS COMPANY, INC.



UL-Listed Flammables
and Acid Cabinet
Safety Storage Systems

Safest. Storage. Solution.

SciMatCo Provides Your
Safest Storage Solutions.



It's Easy to Order from SciMatCo



Online

www.scimatco.com



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Why You Should Choose SciMatCo Wooden Flammables Cabinets

A wooden flammables cabinet? **Yes.**
It's not only possible, but better!

- SciMatCo Flammables cabinets are UL-listed and meet all OSHA, NFPA, IFC and UFC standards.
- Metal is a heat conductor whereas wood is a thermal insulator; metal cabinets become ovens while wooden cabinets protect against the heat.
- Wooden cabinets do not distort or bend the way metal cabinets do when exposed to flame.

Visit scimatco.com to see proof of how well a wooden flammables cabinet performs under fire.



Wood

vs

Metal

Protects from Flames

Yes, wood burns. But a cabinet constructed with 1" plywood using specifications developed by OSHA, NFPA (National Fire Protection Association), IFC (International Fire Code) and UFC (Uniform Fire Code) will meet all the requirements for a flammables cabinet. How long will the wooden flammables cabinet protect the materials inside from flame? Surprisingly longer than a metal flammables cabinet.

Metal does not burn, but it will quickly conduct heat from the fire to the cabinet's interior, compromising the safety of volatile materials stored within.

Structural Integrity

Wooden flammables cabinets keep their shape and do not distort or bend when involved in a fire. The only way for the fire to get inside is to burn all the way through—which would take a long time; check out the video at scimatco.com to see just how long.

Metal flammables cabinets bend and distort in a fire, opening themselves and their contents to the flames.

Heat Insulation

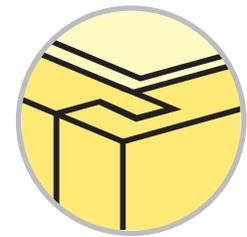
Wood is a thermal insulator. The rapid rise in temperature due to a fire has little or no impact on the inside temperature of the cabinet, thus protecting the contents from the high temperature of a fire.

Metal is a heat conductor. Metal flammables cabinets pass the rapid rise in temperature on to the contents of the flammables cabinets. Glass bottles in a metal flammables cabinet break, releasing their vapors and liquids. Metal containers pop their lids due to high temperatures. Metal cabinets become ovens when involved in a fire.

SciMatCo Wooden Flammables Cabinets



- UL-listed
- Meets all OSHA, NFPA and UFC standards
- Constructed of exterior-grade plywood
- Finished with yellow chemical-resistant paint (inside and out) and 8" x 8" hazard label
- Provided with 2 keys per lock and 4 leveling feet
- Self-closing doors available



All cabinet joints are rabbeted to provide exceptional cabinet strength



Continuous piano-type hinges on door



Adjustable shelf

Floor constructed as a 2" liquid-tight trough

SciMatCo Wooden Flammables Cabinets

CATALOG NO.	APPROXIMATE CAPACITY	SELF-CLOSING DOOR	FLAME ARRESTORS	ADJUSTABLE SHELVES	INTERIOR DIMENSIONS	EXTERIOR DIMENSIONS
SC7021*	30 Gal.	No	No	1	21 ⁷ / ₈ " W × 34" H × 21" D	23 ⁷ / ₈ " W × 36 ⁵ / ₈ " H × 23 ⁷ / ₈ " D
SC7022*	30 Gal.	No	Yes	1	21 ⁷ / ₈ " W × 34" H × 21" D	23 ⁷ / ₈ " W × 36 ⁵ / ₈ " H × 23 ⁷ / ₈ " D
SC7023*	30 Gal.	Yes	No	1	21 ⁷ / ₈ " W × 34" H × 21" D	23 ⁷ / ₈ " W × 36 ⁵ / ₈ " H × 23 ⁷ / ₈ " D
SC6070* [†]	32 Gal.	No	No	1—Fixed	29" W × 30" H × 17" D	31" W × 36 ⁵ / ₈ " H × 20" D
SC7131*	54 Gal.	No	No	2	41" W × 42" H × 15 ¹ / ₈ " D	43" W × 44 ⁵ / ₈ " H × 18" D
SC7132*	54 Gal.	No	Yes	2	41" W × 42" H × 15 ¹ / ₈ " D	43" W × 44 ⁵ / ₈ " H × 18" D
SC7133*	54 Gal.	Yes	No	2	41" W × 42" H × 15 ¹ / ₈ " D	43" W × 44 ⁵ / ₈ " H × 18" D
SC7134*	54 Gal.	Yes	Yes	2	41" W × 42" H × 15 ¹ / ₈ " D	43" W × 44 ⁵ / ₈ " H × 18" D

*  Cabinet must be shipped by motor truck freight.

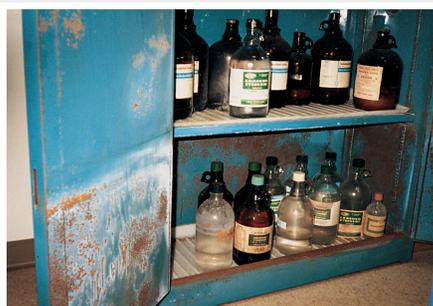
[†] Top is a recessed liquid-tight tray and dispensing area.

Why You Should Buy SciMatCo Metal-Free Acid Cabinets

- Acids oxidize metal; SciMatCo cabinets contain no metal hardware, shelf supports or hinges—we use all-wooden construction.
- Even if metal is coated or painted, a single scratch will break the protected surface and the oxidation begins to spread rapidly.
- High-quality craftsmanship using exterior-grade plywood, wooden hinges and rabbeted joints for strength.

The pictures below depict a metal, epoxy-coated acid cabinet. The cabinet is less than 3 years old.

Metal Acid Cabinets Corrode



Extensive Cabinet Interior Damage

Acid has corroded this metal cabinet—something that wouldn't happen with a SciMatCo Acid Cabinet. SciMatCo Acid Cabinets are constructed of multi-ply, exterior-grade plywood that is covered with chemical-resistant paint. Plywood will not be attacked by acids. This is why we use plywood for SciMatCo Acid Cabinets.



Deep Oxidation and Destruction of Door

Look at the remarkable metal door destruction! We could not get a good picture of the metal hinges, but the owner had to force the door open. SciMatCo Acid Cabinets have wooden hinges—not metal! Insist on wooden hinges for a long life.



Damage to Metal Shelf Support Clip is Particularly Dangerous Since Shelf Collapse Could Result

It won't be long until this cabinet's shelf supports corrode through and collapse. Can you imagine that dangerous mess? Get your money's worth. For long acid cabinet life, buy SciMatCo Acid Cabinets—they are metal-free!

Did you know?

Particleboard is just wood shavings that are glued together and compressed! Did you also know that acids eventually attack the glue that holds the particleboard together? SciMatCo Acid Cabinets use exterior-grade plywood—the best to resist corrosion.

SciMatCo Acid and Base Cabinets

Wooden acid cabinets are safer and more durable than metal cabinets. Acid attacks ALL metal cabinets. No metal is used in the construction of SciMatCo acid cabinets.

SciMatCo Acid Cabinet

- Constructed of 1"-thick, exterior-grade plywood
- Finished with multiple coats of chemical-resistant paint
- Liquid-tight, 2" floor trough to contain accidental spills
- Any and all fasteners are plastic—even the few screws used are nylon
- Wooden door handle
- Four (4) leveling feet included
- Available as partially or fully lined with polypropylene



Unique, entirely wooden hinge assembly. Eliminates common problem of hinge deterioration.

Unique polypropylene lock assembly. Padlock and two keys furnished with cabinet.

Word "ACID" printed on cabinet in 6" red letters.



SciMatCo Base Cabinet

- BASE is printed on cabinet in 6" red letters
- Available as partially or fully lined with polypropylene

Full selection
of cabinets at
scimatco.com

SciMatCo Acid and Base Cabinets, continued

A separate, entirely polypropylene, slide-in isolation compartment is available as an accessory to semi-isolate nitric acid from other products stored in the acid cabinet.

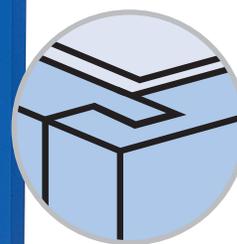
Recessed liquid-tight polypropylene tray and dispensing area can hold 11 liters (3 gallons) of spilled liquid.



Exterior Dimensions:
31" W × 36⁵/₈" H × 20" D

Bottle Capacity:
30 × 2.5 liter or 90 × 500 mL

Fixed-position shelf



All cabinet joints are rabbeted to provide exceptional cabinet strength.

Floor constructed as a 2" liquid-tight trough

SHOWN ABOVE:
SC8051 Fully Lined Acid Cabinet with optional SC8071 Isolation Compartment

SciMatCo Acid and Base Cabinets

CATALOG NO.	DESCRIPTION	MATERIAL	LINED
SC8051*	Acid Cabinet	Wood	Fully Lined with Polypropylene**
SC8041*			Partially Lined with Polypropylene [†]
SC8043*	Base Cabinet	Wood	Fully Lined with Polypropylene**
SC8053*			Partially Lined with Polypropylene [†]
SC8071	Polypropylene isolation compartment for above cabinets		

* Cabinet must be shipped by motor truck freight.

** Fully lined includes floor, shelf, interior walls, interior top, exterior top tray

[†] Partially lined includes, floor, shelf, exterior top tray

SciMatCo Wooden Poison Cabinets

Provides an “Extra Safety Edge” for the Storage of Severe Poisons

- Constructed of exterior-grade plywood and finished with chemical-resistant paint
- SC6080 includes inventory cards and heavy-duty lock with 2 keys for accountability and security
- Compact design

Full selection of cabinets at scimatco.com



SHOWN ABOVE:
SC6080

Laminated suggested contents list

Heavy-duty lock

Pocket for inventory records



One fixed-position, half-cabinet depth shelf with anti-roll off lip

SHOWN ABOVE:
SC6080

2" liquid-tight floor trough

SciMatCo Poison Cabinets

CATALOG NO.	STYLE	CAPACITY	EXTERIOR DIMENSIONS
SC6080	Benchtop	4 Gallon	21¼" H x 15¾" D x 16¾" W
SC2460*	Stak-A-Cab™	20 Gallon	18" H x 18" D x 47" W

* Cabinet must be shipped by motor truck freight.

SciMatCo Wooden Benchtop Cabinets

SciMatCo Benchtop Acid Cabinet

- All-wooden construction with no metal components to eliminate rust and corrosion
- Constructed of exterior-grade plywood and finished with chemical-resistant paint
- Convenient, safe storage
- Interior floor constructed as a 2" liquid-tight containment trough



SciMatCo Benchtop Flammables Cabinet

- UL-listed and meets applicable OSHA and NFPA standards
- One adjustable shelf
- Constructed of exterior-grade plywood and finished with chemical-resistant paint
- Convenient, safe storage
- Interior floor constructed as a 2" liquid-tight containment trough

SciMatCo Wooden Benchtop Cabinets

CATALOG NO.	DESCRIPTION	CAPACITY	EXTERIOR DIMENSIONS
SC8063	Benchtop Acid Cabinet	5 × 2.5 L	21¼" H × 15¾" D × 16¾" W
SC8021	Benchtop Flammables Cabinet	6 Gallon	21¼" H × 15¾" D × 16¾" W
SC8022	Benchtop Flammables Cabinet, Flame Arrestors	6 Gallon	21¼" H × 15¾" D × 16¾" W
SC8023	Benchtop Flammables Cabinet, Self-Closing Door	6 Gallon	21¼" H × 15¾" D × 16¾" W
SC6080	Benchtop Poison Cabinet	4 Gallon	21¼" H × 15¾" D × 16¾" W

SciMatCo Stak-a-Cab™ Safety Storage Cabinets

Choose from a number of specialized stackable cabinets for your storage needs.

- Constructed of exterior-grade plywood and finished with chemical-resistant paint
- Organize all your laboratory chemicals in a space no larger than a standard flammables cabinet
- Customize a chemical storage center for your own special storage needs
- All cabinets constructed to meet and exceed all applicable NFPA and OSHA standards
- UL-listed flammables cabinets
- Metal-free acid cabinets
- Easily identifiable with 8" hazard label
- Stack or use as standalone benchtop units



Available with self-closing doors



SHOWN ABOVE:
SC1460 Corrosive Cabinet, SC2060 Combination Cabinet,
SC1860 Flammables Cabinet and SC1861 Floor Stand

Floor constructed as a 2" liquid-tight trough



SHOWN ABOVE:
Stak-a-Cab™ SC1460
Corrosive Cabinet



Entirely wooden hinge assembly eliminates common problem of hinge deterioration in acid cabinets

SciMatCo Stak-a-Cab™ Safety Storage Cabinets, continued



SHOWN ABOVE:

Stak-a-Cab™ SC2060 Combination Corrosives and Flammables Cabinet

Did You Know?
All SciMatCo Flammables Cabinets are UL-listed. Visit scimatco.com for more information.

SciMatCo Stak-a-Cab™ Cabinets All units 47" W × 18" H × 18" D

CATALOG NO.	TYPE OF STAK-A-CAB	UL LISTED	CAPACITY	COLOR
SC1360*	Acid	—	22 × 2.5 Liter	Blue
SC1460*	Corrosive	—	22 × 2.5 Liter	Blue
SC1560*	Base	—	22 × 2.5 Liter	Blue
SC1860*	Flammables	UL	20 × 1 Gallon	Yellow
SC1863*	Flammables with Self-Closing Doors	UL	20 × 1 Gallon	Yellow
SC1960*	Oxidizer	—	20 × 1 Gallon	Gray
SC2060*	Combination Corrosives and Flammables	UL	Corrosives: 10 × 2.5 Liter, Flammables: 10 × 1 Gallon	Gray
SC2063*	Combination Corrosives and Flammables with Self-Closing Door	UL	Corrosives: 10 × 2.5 Liter, Flammables: 10 × 1 Gallon	Gray
SC2260*	Combination Acid and Base	—	Acid: 10 × 2.5 Liter, Base: 10 × 2.5 Liter	Gray
SC2460*	Poison	—	20 × 1 Gallon	Gray
SC2560*	Hazardous Waste	—	20 × 1 Gallon	Gray
SC8071	Polypropylene Isolation Compartment	—	5 × 2.5 Liter	—

* Cabinet must be shipped by motor truck freight.

SciMatCo Mini Stak-a-Cab™ Cabinets All units 31" W × 17" H × 14½" D

CATALOG NO.	TYPE OF MINI STAK-A-CAB	UL LISTED	CAPACITY	COLOR
SC9039	Flammables with Self-Closing Doors	UL	8 × 1 Gallon	Yellow
SC9040	Flammables	UL	8 × 1 Gallon	Yellow
SC9041	Combination Corrosives and Flammables	UL	Corrosives: 4 × 2.5 Liter, Flammables: 4 × 1 Gallon	Gray
SC9042	Corrosives	—	8 × 2.5 Liter	Blue
SC9043	Combination Corrosives and Flammables with Self-Closing Door	UL	Corrosives: 4 × 2.5 Liter, Flammables: 4 × 1 Gallon	Gray

SciMatCo Stak-a-Cab™ Floor Stands All units 46½" W × 4⅝" H × 17¾" D

CATALOG NO.	DESCRIPTION	COLOR
SC1461	Floor Stand for Acid Stak-a-Cab Cabinet	Blue
SC1861	Floor Stand for Flammables Stak-a-Cab Cabinet	Yellow
SC2061	Floor Stand for Corrosives/Flammables Stak-a-Cab Cabinet or Poison Stak-a-Cab Cabinet	Gray

SciMatCo Mini Stak-a-Cab™ Floor Stands All units 30½" W × 4⅝" H × 14¼" D

CATALOG NO.	DESCRIPTION	COLOR
SC9460	Floor Stand for Flammables Mini Stak-a-Cab Cabinet	Yellow
SC9461	Floor Stand for Corrosives Mini Stak-a-Cab Cabinet	Blue
SC9462	Floor Stand for Corrosives/Flammables or Poison Mini Stak-a-Cab Cabinet	Gray

SciMatCo Jumbo Stacking Cabinets

Jumbo Stacking Cabinets for convenient storage.
Save valuable laboratory space.

- Constructed of exterior-grade plywood
- Finished with easily identified, chemical-resistant paint
- Organize both your flammable and corrosive liquids in a space no larger than a standard cabinet
- Individual cabinets may be placed under a work surface with 32¼" clearance
- Use as a stand-alone unit or stack up to two units high
- All cabinets meet or exceed all applicable OSHA and NFPA standards
- Flammables cabinets are UL-listed
- All cabinets have a 2" liquid-tight trough to contain spills
- Flammables cabinets available with self-closing doors



SHOWN ABOVE:
SC8079 Jumbo Stacking Flammables
Cabinet with Self-Closing Doors

SHOWN ABOVE:
SC8082 Jumbo Stacking Corrosive Cabinet
and SC8080 Jumbo Stacking Flammables Cabinet

SciMatCo Jumbo Stacking Cabinets, continued

A separate, entirely polypropylene, slide-in isolation compartment is available as an accessory to semi-isolate nitric acid or nitric acid spills from all other products stored in the acid cabinet. We urge the purchase of this accessory to avoid reactions between products, particularly between nitric and acetic acids.



Cabinets include suitable locking mechanism and keys

Chemical-resistant, blue epoxy paint for easy identification

Fixed-position shelf for safety (acid, corrosive or base only)



Fully adjustable shelf (flammables only)

2" liquid-tight bottom trough for secondary containment

SciMatCo Jumbo Stacking Cabinets All units 30" W × 32½" H × 18½" D

CATALOG NO.	DESCRIPTION	UL LISTED	CAPACITY	COLOR
SC8078*	Flammables Cabinet with Rear Flame Arrestors	UL	24 × 1 Gallon	Yellow
SC8079*	Flammables Cabinet with Self-Closing Doors	UL	24 × 1 Gallon	Yellow
SC8080*	Flammables Cabinet	UL	24 × 1 Gallon	Yellow
SC8081*	Acid Cabinet	—	24 × 2.5 Liter	Blue
SC8082*	Corrosives Cabinet	—	24 × 2.5 Liter	Blue
SC8083*	Base Cabinet	—	24 × 2.5 Liter	Blue
SC8084*	Acid Cabinet with Rear Vent	—	25 × 2.5 Liter	Blue
SC8071	Polypropylene Isolation Compartment for all above cabinets	—	5 × 2.5 Liter	—

*  Cabinet must be shipped by motor truck freight.

SciMatCo Under-the-Counter Cabinets

SciMatCo Under-the-Counter storage cabinets are specially designed to fit under your existing counters or fume hoods—can also be used as standalone units!

Acid Cabinets Feature:

- All wooden components to eliminate corrosion—including unique wooden hinges
- Interior either partially or fully lined with polypropylene:
 - Partially lined: Polypropylene on shelf and floor
 - Fully lined: Polypropylene on all interior walls, shelf, floor and top
- Floor constructed as a 2" liquid-tight trough
- Fixed-position shelf and polypropylene locking assembly



SHOWN ABOVE:
SC1448 Corrosives, Partially Lined
Under-the-Counter Cabinet



SHOWN ABOVE:
SC1848 Flammables
Under-the-Counter Cabinet

Flammables Cabinets Feature:

- All SciMatCo flammables cabinets are UL listed
- Continuous piano-style metal hinge
- Wood is an excellent insulator to protect chemicals against heat from a fire (whereas metal cabinets become ovens in a fire)
- Adjustable shelf and metal locking assembly
- Floor constructed as a 2" liquid-tight trough



SHOWN ABOVE:
SC2048 Combination Corrosives and Flammables
Under-the-Counter Cabinet

Combination Cabinets are Two Separate Cabinets in One Unit:

- Combination cabinets utilize the safety features of both the acid and flammables cabinets
- Finished with light gray chemical-resistant paint
- Highly visible labels affixed to the front of each door for easy identification

SciMatCo Under-the-Counter Cabinets, continued



SHOWN ABOVE:
SC2037 Combination Corrosives/Flammables
Cabinet with Self-Closing Door

SciMatCo wooden storage cabinets are constructed with exterior-grade plywood and finished with chemical-resistant paint. All joints are rabbeted for strength and durability. A polypropylene isolated storage compartment is available to keep certain acids separate from the rest of the cabinet's contents. Mobile ADA Cabinets are also available; see page 16.

SciMatCo Under-the-Counter Cabinets*

CATALOG NO.	DESCRIPTION	UL-LISTED	CAPACITY	EXTERIOR DIMENSIONS	COLOR
SC1430	Corrosives, Partially Lined	—	28 × 2.5 Liter	29" W × 35½" H × 22" D	Blue
SC1436	Corrosives, Partially Lined	—	34 × 2.5 Liter	35" W × 35½" H × 22" D	Blue
SC1448	Corrosives, Partially Lined	—	48 × 2.5 Liter	47" W × 35½" H × 22" D	Blue
SC1630	Corrosives, Fully Lined	—	28 × 2.5 Liter	29" W × 35½" H × 22" D	Blue
SC1636	Corrosives, Fully Lined	—	34 × 2.5 Liter	35" W × 35½" H × 22" D	Blue
SC1648	Corrosives, Fully Lined	—	48 × 2.5 Liter	47" W × 35½" H × 22" D	Blue
SC1830	Flammables	UL	28 × 1 Gallon	29" W × 35½" H × 22" D	Yellow
SC1836	Flammables	UL	32 × 1 Gallon	35" W × 35½" H × 22" D	Yellow
SC1848	Flammables	UL	52 × 1 Gallon	47" W × 35½" H × 22" D	Yellow
SC1822	Flammables with Right Hinge	UL	24 × 1 Gallon	23" W × 35½" H × 22" D	Yellow
SC1824	Flammables with Left Hinge	UL	24 × 1 Gallon	23" W × 35½" H × 22" D	Yellow
SC2036	Combination Corrosives (Partially Lined) and Flammables	UL	18 × 2.5 Liter / 16 × 1 Gallon	35" W × 35½" H × 22" D	Gray
SC2048	Combination Corrosives (Partially Lined) and Flammables	UL	24 × 2.5 Liter / 24 × 1 Gallon	47" W × 35½" H × 22" D	Gray
SC2236	Combination Corrosives (Fully Lined) and Flammables	UL	18 × 2.5 Liter / 16 × 1 Gallon	35" W × 35½" H × 22" D	Gray
SC2248	Combination Corrosives (Fully Lined) and Flammables	UL	24 × 2.5 Liter / 24 × 1 Gallon	47" W × 35½" H × 22" D	Gray

* Cabinet must be shipped by motor truck freight.

SciMatCo Under-the-Counter Cabinets are available with Flame Arrestors and Self-Closing Doors*

CATALOG NO.	DESCRIPTION	UL-LISTED	CAPACITY	EXTERIOR DIMENSIONS	COLOR
SC1829	Flammables with Self-Closing Doors	UL	28 × 1 Gallon	29" W × 35½" H × 22" D	Yellow
SC1837	Flammables with Self-Closing Doors	UL	32 × 1 Gallon	35" W × 35½" H × 22" D	Yellow
SC1847	Flammables with Self-Closing Doors	UL	52 × 1 Gallon	47" W × 35½" H × 22" D	Yellow
SC1838	Flammables with Flame Arrestors	UL	32 × 1 Gallon	35" W × 35½" H × 22" D	Yellow
SC1844	Flammables with Self-Closing Doors and Flame Arrestors	UL	52 × 1 Gallon	47" W × 35½" H × 22" D	Yellow
SC1831	Flammables with Self-Closing Doors and Flame Arrestors	UL	28 × 1 Gallon	29" W × 35½" H × 22" D	Yellow
SC1834	Flammables with Self-Closing Doors and Flame Arrestors	UL	32 × 1 Gallon	35" W × 35½" H × 22" D	Yellow
SC1823	Flammables with Right Hinge and Self-Closing Door	UL	24 × 1 Gallon	23" W × 35½" H × 22" D	Yellow
SC1825	Flammables with Left Hinge and Self-Closing Door	UL	24 × 1 Gallon	23" W × 35½" H × 22" D	Yellow
SC2037	Combination Corrosives (Partially Lined) and Flammables with Self-Closing Door	UL	18 × 2.5 Liter / 16 × 1 Gallon	35" W × 35½" H × 22" D	Gray
SC2047	Combination Corrosives (Partially Lined) and Flammables with Self-Closing Door	UL	24 × 2.5 Liter / 24 × 1 Gallon	47" W × 35½" H × 22" D	Gray
SC2237	Combination Corrosives (Fully Lined) and Flammables with Self-Closing Door	UL	18 × 2.5 Liter / 16 × 1 Gallon	35" W × 35½" H × 22" D	Gray
SC2247	Combination Corrosives (Fully Lined) and Flammables with Self-Closing Door	UL	24 × 2.5 Liter / 24 × 1 Gallon	47" W × 35½" H × 22" D	Gray

* Cabinet must be shipped by motor truck freight.

Isolation Compartment is available for all SciMatCo Under-the-Counter Cabinets

CATALOG NO.	DESCRIPTION	CAPACITY	EXTERIOR DIMENSIONS
SC8071	Polypropylene Isolation Compartment	5 × 2.5 Liter	13⅝" W × 13⅞" H × 15¼" D

SciMatCo Mobile ADA Cabinets

SciMatCo Mobile ADA Cabinets include all the same safety features as SciMatCo wooden acid and flammables cabinets—the only difference is that the Mobile ADA cabinets have a slightly smaller size to accommodate wheels, allowing you the flexibility to move this cabinet where it is needed.



SHOWN ABOVE:
SC3050 Combination Corrosives and
Flammables Mobile ADA Cabinet



SHOWN ABOVE:
SC3015 Corrosives Mobile ADA Cabinet



SHOWN ABOVE:
SC3010 Flammables Mobile ADA Cabinet

SciMatCo Mobile ADA Cabinets

CATALOG NO.	DESCRIPTION	UL Listed	EXTERIOR DIMENSIONS
SC3010*	Flammables Mobile ADA Cabinet	UL	34" W × 26½" H × 22" D
SC3015*	Corrosives Mobile ADA Cabinet	—	34" W × 26½" H × 22" D
SC3050*	Combination Corrosives and Flammables Mobile ADA Cabinet	UL	34" W × 26½" H × 22" D

* Cabinet must be shipped by motor truck freight.

SciMatCo Shelving Systems for Chemical Storage

Designed specifically for your chemical storage area.

- Chemical-resistant finish over beautiful natural wood to provide maximum resistance—yet an attractive addition to your chemical storage area.
- Sturdy heavy-duty wood construction. Wood is your best choice for chemical storage.
- Safety anti-roll off lips on each shelf prevent accidental bottle breakage.
- Modular design allows several units to be purchased and assembled for multiple storage demands.
- Polypropylene shelf liners are available as an accessory for added spill protection and chemical resistance.



SciMatCo Shelving Systems

CATALOG NO.	DESCRIPTION
SC6010*	SciMatCo Shelving Assembly, Wood
SC6012*	SciMatCo Shelving Assembly, Wood, with Combination Acid/Flammables Cabinet
SC6025	Polypropylene Shelf Liners for use with above shelving assemblies. Liners easily fit the shelves, add to the useful life and appearance of your shelf assembly.

*  Must be shipped by motor truck freight. Unit ships in two pieces.

SciMatCo Plast-a-Cab® Corrosive Cabinets

No Rust or Corrosion—We Guarantee It!

SciMatCo Plast-a-Cab® cabinets are constructed with high-density polyethylene plastic for both strength and excellent chemical resistance. All interior seams are welded to provide a liquid-tight seal necessary to meet OSHA's standard for secondary containment.

- Constructed of ¾" high-density polyethylene (HDPE) plastic
- Store your most corrosive chemicals with no fear of rust or corrosion
- Liquid-tight, welded interior to contain accidental spills and meet OSHA's standard for secondary containment
- Floor constructed as a 2" liquid-tight trough to contain spillage



SC5010
Plast-a-Cab Acid Cabinet, Benchtop



SC5030
Plast-a-Cab Acid Cabinet, Floor



SC5032
Plast-a-Cab Base Cabinet, Floor

Full selection
of cabinets at
scimatco.com

SciMatCo Plast-a-Cab[®] Corrosive Cabinets, *continued*

Excellent Cabinets for Corrosive Environments—Inside and Out

How many other manufacturers will replace your acid cabinet if it rusts or corrodes? SciMatCo will! Metal cabinets, no matter how well they're painted or what coating they use, will rust. Even stainless steel will rust. Acid fumes work into the very first scratch and ruin the whole cabinet. Rusting and corroding cabinets may no longer offer the protection you require. Secondary containment may no longer be effective in case of a spill. You deserve long-term protection. You will get it with a SciMatCo Plast-a-Cab[®]. Our plastic cabinets will never rust or corrode. Our cabinets will provide effective protection for your most hazardous chemicals for years after the metal cabinets have gone to the scrap pile.



SC5030 Plast-a-Cab
Floor Acid Cabinet



SC5010 Plast-a-Cab
Acid Cabinet, Benchtop

- Uniquely designed cabinet door hinge made of plastic
- Safely store perchloric acid
- Interior may be completely rinsed or washed
- Floor model can be used as a free-standing cabinet or built in under your work surface
- Choose between two sizes: a smaller cabinet for frequently used chemicals stored at your work area or a larger unit designed for more centralized storage
- Fixed-position shelf on the floor models
- 11-liter (3-gallon) top dispensing tray (SC5050 only)

SciMatCo Plast-a-Cab[®] Corrosive Cabinets

CATALOG NO.	DESCRIPTION	FIXED SHELVES	CAPACITY	EXTERIOR DIMENSIONS
SC5010	Benchtop Acid Cabinet	No	6 × 2.5 Liter	16¾" W × 15¾" D × 21" H
SC5012	Benchtop Base Cabinet	No	6 × 2.5 Liter	16¾" W × 15¾" D × 21" H
SC5030*	Floor Acid Cabinet	1	36 × 2.5 Liter	29" W × 35½" H × 22" D
SC5032*	Floor Base Cabinet	1	36 × 2.5 Liter	29" W × 35½" H × 22" D
SC5050*	Floor Acid Cabinet with Top Tray	1	30 × 2.5 Liter	31" W × 36½" H × 20" D
SC8071	Polypropylene Isolation Compartment for Floor Plast-a-Cab [®] Cabinets	—	5 × 2.5 Liter	13⅝" W × 13⅞" H × 15¼" D

*  Cabinet must be shipped by motor truck freight.

SciMatCo Polypropylene Acid Cabinets

Years of trouble-free service even in the most corrosive environments.



SC5000 Bench Polypropylene Cabinet

SciMatCo white polypropylene cabinets will never rust or corrode. We offer three sizes of cabinets, from 15 liters to 250 liters. And, for safety, all interior seams are welded to provide a liquid-tight seal necessary to meet OSHA's standard for secondary containment.

- All cabinets are constructed of white polypropylene for durability
- Store your most corrosive chemicals with no fear of rust or corrosion of your storage cabinet



SC5060 Polypropylene Cabinet

- All cabinets have liquid-tight, all-welded interiors to contain accidental spills. Ideal to meet OSHA requirement for secondary containment
- All cabinets have a 2" liquid-tight trough to contain spillage
- Shelves are lipped to prevent roll-off of bottles, provide liquid containment of small spills and add structural strength
- Polypropylene hinges for durability and long life
- All shelves are fixed-position for safety and strength

SciMatCo Polypropylene Acid Cabinets, continued



SciMatCo Polypropylene Acid Cabinets

CATALOG NO.	DESCRIPTION	FIXED SHELVES	CAPACITY	EXTERIOR DIMENSIONS
SC5000	Benchtop Acid Cabinet	—	6 × 2.5 Liter	16" W × 16" H × 16" D
SC5040*	40" Tall Acid Cabinet	1	50 × 2.5 Liter	48" W × 40" H × 18" D
SC5060*	60" Tall Acid Cabinet	3	100 × 2.5 Liter	48" W × 60" H × 18" D
SC5023*	60" Tall Acid Cabinet with Right Hinge	3	50 × 2.5 Liter	24" W × 60" H × 18½" D
SC5024*	60" Tall Acid Cabinet with Left Hinge	3	50 × 2.5 Liter	24" W × 60" H × 18½" D
SC8071	Polypropylene Isolation Compartment for Tall Polypropylene Cabinets	—	5 × 2.5 Liter	13½" W × 13½" H × 15¼" D

* Cabinet must be shipped by motor truck freight.

Should chemical storage cabinets be ventilated?

Proper room ventilation with adequate air exchanges will eliminate most unsafe chemical vapors. The only time you may want to ventilate a chemical storage cabinet is if the ventilation in the laboratory or chemical stores area is inadequate or you are required to provide cabinet ventilation because of state or local law.

Venting a chemical storage cabinet is not necessary for fire protection. In fact, a vented cabinet could compromise the ability of the cabinet to protect its contents from a fire. During a fire, vapor from the hazardous chemicals in the cabinet may be released. If the integrity of the chemical storage cabinet is compromised because of the ventilation system, these hazardous fumes will escape from the cabinet and a very dangerous and devastating situation may occur.

At the right and below are the proper guidelines established by the National Fire Protection Association for the ventilation of flammable chemicals.

National Fire Protection Association NFPA #30, 4-3.2

"The cabinet is not required to be vented for fire protection purposes, however, the following shall apply:

(a) If the cabinet is vented for whatever reasons, the cabinet shall be vented outdoors in such a manner that will not compromise the specified performance of the cabinet, as acceptable to the authority having jurisdiction.

(b) If the cabinet is not vented, the vent openings shall be sealed with the bungs supplied with the cabinet or with bungs specified by the manufacturer of the cabinet.

A-4-3.2 Venting of storage cabinets has not been demonstrated to be necessary for fire protection purposes. Additionally, venting a cabinet could compromise the ability of the cabinet to adequately protect its contents from involvement in a fire since cabinets are not generally tested with any venting. Therefore, venting of storage cabinets is not recommended."

What is the proper method for ventilating a chemical storage cabinet?

It is recognized that some state and local jurisdictions may require storage cabinets to be vented. Safety cabinets should be vented from the lower vent opening with make-up air supplied to the upper vent opening. Mechanical exhaust ventilation is preferred and should comply with NFPA 91-199 Standard for Exhaust Systems for Air Conveying Vapors, Gasses, Mist and Non-Combustible Solids.

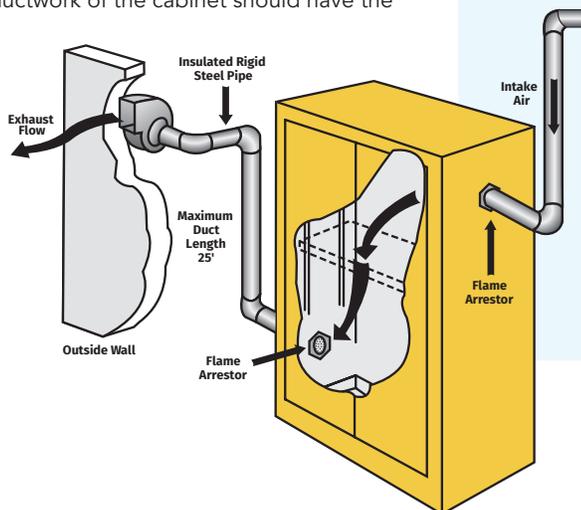
In such cases, the ventilation system should be installed so as not to reduce the fire-protection capabilities of the safety cabinet during a fire. Means of accomplishing this may include thermally actuated dampers on the vent openings or proper insulation of the vent piping system. Manifolding the vents of multiple storage cabinets should be avoided. Any make-up air to the cabinet should also be arranged in a similar manner. Remember, the intent of a flammables storage cabinet is to keep the contents of the cabinet away from the fire. The ductwork of the cabinet should have the same intent.

National Fire Protection Association NFPA #30, 4-3.2

"Vent openings are often provided by manufacturers because some jurisdictions mandate that the cabinet be vented to prevent vapor accumulation in the cabinet and because some users desire this feature if the cabinet will be used for toxic or noxious materials. It should be understood that venting the cabinet may defeat its fire integrity. If it is not necessary or required that the cabinet be vented, then the vent openings should be kept tightly capped with the metal bungs provided for that purpose.

If the cabinet must be vented, then these procedures should be followed:

- Remove both metal bungs and replace with flash arrestor screens (normally provided with cabinets). The top openings will serve as the fresh air inlet.
- Connect the bottom opening to an exhaust fan by a substantial metal tubing having an inside diameter no smaller than the vent. The tubing should be rigid steel.
- The fan should have a non-sparking fan blade and non-sparking shroud. It should exhaust directly outside.
- The total run of exhaust duct should not exceed 25 feet."



Regulatory Manufacturing Specifications for Wooden Flammable Liquid Storage Cabinets

Flammable liquid storage cabinets are required to meet the specifications set up by the National Fire Protection Association (NFPA #30) and OSHA (29CFR1910.16). In addition, some states and/or local agencies may require that the cabinets also follow the specifications under the Uniform Fire Code (UFC 79.202), which requires flammables storage cabinets to have self-closing doors.

- **All SciMatCo flammables storage cabinets are UL-listed.**
- Prior to purchasing any chemical storage cabinet, familiarize yourself with the local and state codes.
- With any code, make sure the chemical you are intending to store is compatible with the other stored chemicals.
- Corrosive liquids are not usually covered under the same specifications as flammable and combustible materials.
- Corrosive chemicals should be stored separately from flammable and combustible chemicals.
- Make sure the chemical that you are intending to store is compatible and non-reactive with the material of the cabinet.
- Carefully check to make sure if you are required to meet the specifications for self-closing doors. It will add cost to the purchase price of your cabinet.



NFPA #30 4-3.2.2

Wooden cabinets constructed in the following manner are acceptable. The bottom, sides, and top shall be constructed of exterior grade plywood at least 1 inch (2.5 cm) in thickness, which shall not break down or delaminate under fire conditions. All joints shall be rabbeted and shall be fastened in two directions with wood screws. When more than one door is used there shall be a rabbeted overlap of not less than 1 inch (2.5 cm). Doors shall be equipped with a means of latching, and hinges shall be constructed and mounted in such a manner as to not lose their holding capacity when subjected to fire exposure. A raised sill or pan capable of containing a 2-inch (5 cm) depth of liquid shall be provided at the bottom of the cabinet to retain spilled liquid within the cabinet.

OSHA 1910.106 (d) (3) (ii) (b)

Wooden cabinets constructed in the following manner shall be deemed in compliance. The bottom, sides, and top shall be constructed of an approved grade of plywood at least 1 inch in thickness, which shall not break down or delaminate under fire conditions. All joints shall be rabbeted and shall be fastened in two directions with flathead wood screws. When more than one door is used, there shall be a rabbeted overlap of not less than 1 inch. Hinges shall be mounted in such a manner as not to lose their holding capacity due to loosening or burning out of the screws when subjected to the fire test.

Definition of Flammable or Combustible Liquids

- **Class I:** Flammable liquids with a flashpoint below 100 °F (37.8 °C)
- **Class II:** Combustible liquids with a flashpoint above 100 °F (37.8 °C) and below 140 °F (60 °C)
- **Class IIIA:** Combustible liquids with a flashpoint above 140 °F (60 °C) and below 200 °F (93 °C)

Uniform Fire Code 79.202

(c) Storage Cabinets

1. **General.** When other sections require that liquid containers are stored in storage cabinets, such cabinets and storage shall be in accordance with this subsection.
2. **Quantities.** The combined quantity of Class I and Class II liquids in a cabinet shall not exceed 60 gallons, and the total quantities of all liquids shall not exceed 120 gallons.
3. **Construction.**
 - A. **Labeling.** Cabinets shall be conspicuously labeled in red letters on contrasting background FLAMMABLE—KEEP FIRE AWAY.
 - B. **Doors.** Doors shall be well-fitted, self-closing and equipped with a latch.
 - C. **Bottom.** The bottom of the cabinet shall be liquid-tight to a height of at least 2 inches.
 - D. **Materials (l) General.** Cabinets shall be constructed of wood or metal and approved by the chief. Cabinets shall be listed or constructed in accordance with Section 79.202(c) 3D (ii) or (iii).
 - (iii) **Wooden cabinets.** Wooden cabinets, including doors, shall be constructed of not less than 1-inch exterior-grade plywood. Joints shall be rabbeted and shall be fastened in two directions with wood screws. Door hinges shall be of steel or brass. Cabinets shall be painted with an intumescent-type paint.

Note:

Before purchasing any chemical storage cabinet, familiarize yourself with all local and state codes from the appropriate agencies having jurisdiction in your area.



SciMatCo

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