



CARTMAY SERVICE FOR YOU

Weixing Industrial Park, Henglin Town, Changzhou City, Jiangsu Province, China

Tel: +86 519 8850 0208

Fax: +86 519 8850 0728

Email: info@laboratorytop.net

<http://www.laboratorytop.net>

Epoxy resin countertops

The main ingredients of epoxy resin board are epoxy resin, quartz sand, catalysts, curing agents and pigments, and it is produced by several baking at high temperature. Its overall thickness is composed with the same materials from top to bottom and from inside to outside, so it has a good stability, and without external shocks it will never break. Because it is formed by curing at high temperature, at room temperature the epoxy resin board will never deform.

Features

High temperature resistance:

It is able to withstand common laboratory temperature, and it is not flammable, has no bubbles and does not break.

Anti-corrosion:

It has superior corrosion resistance to acid and base solvents commonly used in laboratory.

Safety and environmental protective:

It is non-toxic and tasteless, insulating, no asbestos, not flammable, can not release poisonous gas, resist bacteria.

Reparable surface:

The whole board has same material, and it can be repaired as original when it is damaged.

Durable:

It is absolute moisture-proof.

Economical:

Different thickness for choice, is the most cost-effective work surface available.





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Epoxy resin countertops

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Application

Epoxy resin countertop is the perfect choice for a range of laboratories including teaching and research, medical and pharmaceutical operations. From universities to high schools, from fundamental and applied science researching centers to wide range of industrial organizations, from disease control and preventive medical departments to quarantine centers; From biological products and pharmaceutical factories to industrial and hospital labs, clinics and operation rooms.

Color Range



1399 black



1359 dark gray



1421 Sesame Black



1121 light gray



1380 deep green



1290 Spectrum blue

The color and size can be customized according to customer requirements

Product Specification

Type	Thickness	Size	Face
Epoxy resin board	15mm	5'×10' (1540×3050mm)	Matt or Rough
	16mm	5'×10' (1540×3050mm)	Matt or Rough
	19mm	5'×8' (1540×2480mm)	Matt or Rough
	20mm	5'×8' (1540×2480mm)	Matt or Rough
	25mm	5'×8' (1540×2480mm)	Matt or Rough



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Material Physical Properties

Item	Value	Unit	Standard
Density	1.9	g/cm ³	ISO 1183
Weight			
Thickness=15mm	28.5	kg/m ²	ISO 1183
Thickness=16mm	30.4	kg/m ²	ISO 1183
Thickness=19mm	36.1	kg/m ²	ISO 1183
Thickness=20mm	38	kg/m ²	ISO 1183
Thickness=25mm	47.5	kg/m ²	ISO 1183
Thickness Tolerance			
12.0≤t≤16mm	±0.20mm	mm(Max)	
16.0≤t≤20mm	±0.20mm	mm(Max)	
20.0≤t≤25mm	±0.30mm	mm(Max)	
Flatness Tolerance			
12≤t≤16mm	5.0mm/m	mm/m(Max)	
16≤t≤20mm	4.0mm/m	mm/m(Max)	
20≤t≤20mm	3.0mm/m	mm/m(Max)	
Water Absorption	0.02%	%	ASTM D570-98
Tensile Strength	97.6	Mpa	ASTM D638-03
Flexural Strength	31.7	Mpa	ASTM D790-03
Compresssive strength	85.9	Mpa	ASTM D695-02
Head Deflection(1.82Mpa)	182	°C	ASTM D648-01
Rockwell hardness	40	/	ASTM D789-03
Modulus of Flex	8.46	GP	ASTM D789-03
Flame Resistance(3.2mm)	FH-1	/	GB/T 2408-1996
Head Tolerance	do not ignite	/	GB/T 17657-1999
Scratch Resistance	—	/	



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Material Resistance Chemical Properties

Item	Result	Grade
NaOH(40%)	no distinct changes of color and glass on surface	1
H ₂ O ₂ (10%)	no distinct changes of color and glass on surface	1
HCL(37%)	no distinct changes of color and glass on surface	1
CH ₃ COOH(99%)	no distinct changes of color and glass on surface	1
H ₂ SO ₄ (98%)	no distinct changes of color and glass on surface	1
CCL ₄	no distinct changes of color and glass on surface	1
HF(40%)	no distinct changes of color and glass on surface	1
Na ₂ S(saturated)	no distinct changes of color and glass on surface	1
C ₆ H ₅ OH	no distinct changes of color and glass on surface	1
CH ₃ CHO(37%)	no distinct changes of color and glass on surface	1
H ₃ PO ₄ (85%)	no distinct changes of color and glass on surface	1
NH ₃ (25%)	no distinct changes of color and glass on surface	1



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Cleaning and Maintenance

- 1, To remove the surface dirty, the wet rag is ok; As for besmirch, use 70% ethanol to clear them, if the dirt or spot is difficult to remove, household detergent or a little acetone may be used, but must not use, but must not use scouring power and rough sponges.
- 2, Scratches caused by metal, rubber, and so on, may be removed with a rag saturated with the naphtha or dissolvent.
- 3, To renew its initial gloss, firstly clear it, and drop some wax or plant oil, then dry it with the rag.
- 4, 70% ethanol is often used to clean the tops;
- 5, Epoxy resin can resist most chemicals, but it is recommended to test the reagent before using.

Repair

epoxy resin can be renew with suitable method, the scratch can be removed completely.

Materials Needed:

Sandpaper(grits360, 600); 3M Scotch Brite fabric; Mineral oil or light machine oil

Delicate Scratches

Sanding with 3M Scotch Brite fabric saturated oil in the same direction with the scratch. The lighter the touch, the less material removed, the better the repair will look.

Serious Scratches

Sanding with sandpaper grits 300 and 600 in the same direction with the scratch, then polish it until the scratch disappears. The lighter the touch, the less material removed, the better the repair will look. And polishing the whole surface with 3M Scotch Brite fabric saturated oil, then clear it with a clear rag.

A variety of trimmings can be selected

- | | |
|----------------------------------|---------------------|
| 1, Emborder with butterfly-shape | 2, L-shape emborder |
| 3, Upper emborder | 4, Fake emborder |
| 5, Chamfer of angle | 6, Sealing line |



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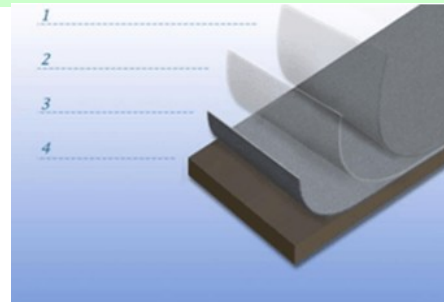
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phenolic resin countertops

Phenolic resin board is manufactured by pressing melamine resin impregnated decorative paper over layers of phenolic resin impregnated kraft paper at high pressure and temperatures. The surface (One side) has a special internal chematte coating of superior moisture, wear and chemical resistance.

Structure

- 1、 Chemical-resistant Film
- 2、 Overlay Paper
- 3、 High Pressure Deco Paper
- 4、 High Pressure Kraft Paper + Phenolic Resin



Features

- Resistant to acid, alkali and reagents
- Easy to clean and maintain
- Hygiene, No-toxic
- Resistant to breed of bacteria
- Resistant to impact
- Resistant to scratching
- Resistant to moisture and steam
- Resistant to heat and cigarette burns
- Extremely durable



Application

Phenolic resin countertop is the perfect choice for a range of laboratories including teaching and research, medical and pharmaceutical operations. From universities to high schools, from fundamental and applied science researching centers to wide range of industrial organizations, from disease control and preventive medical departments to quarantine centers; From biological products and pharmaceutical factories to industrial and hospital labs, clinics and operation rooms.



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phenolic resin countertops

Color Range



1399 black



1339 dark gray



1421 Sesame Black



1121 light gray



1380 deep green



1290 Spectrum blue

Product Specification

Type	Thickness	Size
phenolic resin board	6mm	4'×8' (1220×2440mm)
	12.7mm	4'×10' (1220×3050mm)
	16mm	4'×12' (1220×3660mm)
	19mm	5'×10' (1525×3050mm)
	25mm	5'×12' (1525×3660mm)





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Material Physical Properties

Item	Value	Unit	Standard
Density	≥ 1350	kg/m ³	ISO 1183
Weight			
Thickness=6mm	8.1	kg/m ²	
Thickness=12.7mm	17.1	kg/m ²	
Thickness=16mm	21.6	kg/m ²	
Thickness=19mm	25.6	kg/m ²	
Thickness=25mm	33.7	kg/m ²	
Thickness Tolerance			
5.0 $\leq t \leq$ 8mm	± 0.40 mm	mm(Max)	
8.0 $\leq t \leq$ 12mm	± 0.50 mm	mm(Max)	
12.0 $\leq t \leq$ 16mm	± 0.60 mm	mm(Max)	
16.0 $\leq t \leq$ 20mm	± 0.70 mm	mm(Max)	
20.0 $\leq t \leq$ 25mm	± 0.80 mm	mm(Max)	
Flatness Tolerance			
2.0 $\leq t \leq$ 6.0mm	8.0mm/m	mm/m(Max)	
6.0 $\leq t \leq$ 10.0mm	5.0mm/m	mm/m(Max)	
10.0mm $\leq t$	3.0mm/m	mm/m(Max)	
Water Absorption	0.57%	%	ASTM D570-98
Tensile Strength	≥ 53.8	Mpa	ASTM D638-03
Tensile elongation at break	1	%	ASTM D638-03
Flexural Strength	≥ 85	Mpa	ASTM D790-03
Lzod impact strength(notched)	25.9	J/m	ASTM D256-03
Compressive strength	197	Mpa	ASTM D695-02
Coefficient of linear expansion	2.53×10^{-5}	$^{\circ}\text{C}^{-1}$	ASTM D696-03
Rockwell hardness	121	/	ASTM D789-03
Formaldehyde emission	0.1	mg/L	GB/T 17657-1999



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Material Resistance Chemical Properties

Item	Result	Grade
NaOH(40%)	no distinct changes of color and glass on surface	1
H ₂ O ₂ (3%)	no distinct changes of color and glass on surface	1
HCL(37%)	no distinct changes of color and glass on surface	1
CH ₃ COOH(99%)	no distinct changes of color and glass on surface	1
H ₂ SO ₄ (98%)	no distinct changes of color and glass on surface	1
CCL ₄	no distinct changes of color and glass on surface	1
HF(40%)	no distinct changes of color and glass on surface	1
Na ₂ S(saturated)	no distinct changes of color and glass on surface	1
C ₆ H ₅ OH	no distinct changes of color and glass on surface	1
CH ₃ CHO(37%)	no distinct changes of color and glass on surface	1
H ₃ PO ₄ (85%)	no distinct changes of color and glass on surface	1
NH ₃ (25%)	no distinct changes of color and glass on surface	1



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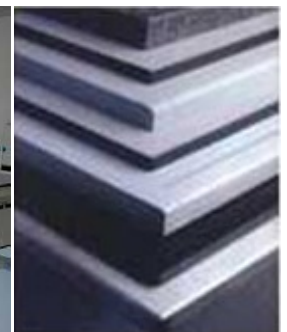
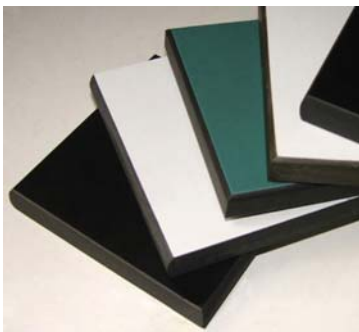
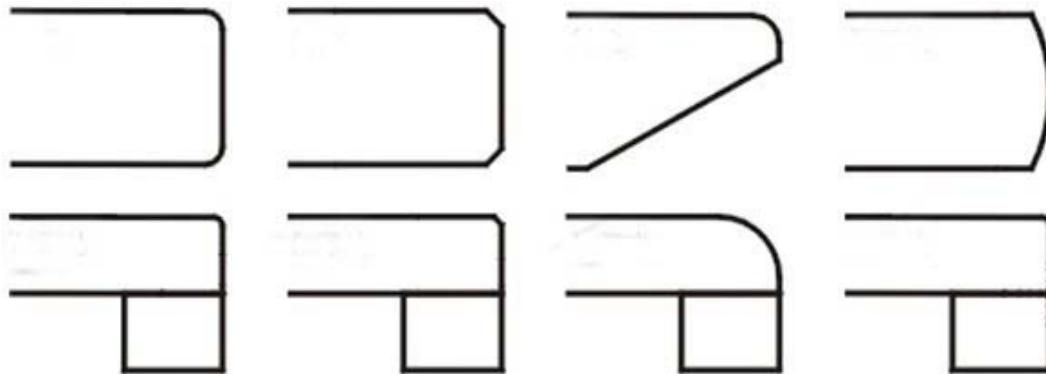
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phenolic resin countertops

Cleaning and Maintenance

- 1, Do not subject these laminates to extreme in humidity or to a temperatures over 135°C for sustained periods of time.
- 2, Chemsurf should not be exposed to flame, molten metal, metallic sparks or intense, direct sunlight, nor should it be used as cutting surfaces.
- 3, Chemsurf laminate can be damaged by flame from Bunsen burners. The burners should be placed on a trivet to protect the laminate surface.
- 4, Phenolic resin countertop may be cleaned with warm water and mild soaps, such as those used for hands or dishes. The use of cleansers that contain abrasives or strong acids may damage the decorative surface. Stubborn stains may be removed with a 1.5 minute exposure to hypochlorite bleach, followed by a clean water rinse.

A variety of trimmings can be selected





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Ceramic Countertop

Ceramic countertop is the rich kaolin resources, unique glaze formula and Germany combined with advanced manufacturing technology imported from Italy, formed after calcination 1500°C. Because of its unique manufacturing materials, so that the table has a high temperature resistance, resistance to chemical reagents, anti-carved, anti-acid, anti-alkali, corrosion resistant, water proof, safe, reliable, durable, beautiful appearance color uniformity and other characteristics. Become a laboratory furniture tops materials.

We not only provide a mature man-machine engineering solutions, compelling designs and products made from natural materials and we can cater to customer's individual requirements.

China Cartmay company is the supplier of laboratory ceramics products in the laboratory furniture industry, is the professional company which can supply laboratory ceramic benchtops, ceramic fume hood benchtops, ceramics lining board of fume hood, ceramic sinks, ceramic cupsinks.

Features

- 1, Can resist all kinds of chemicals except hydrofluoric acid
- 2, Can resist the open flame and the high temperature up to 1550°C
- 3, Durable and scratch resistant
- 4, Will not discolor or fade out due to UV light, easy cleaning, hygiene
- 5, No poisonous material and non-toxic
- 6, Produced by the unique molding process and can effectively prevent liquid from overflowing
- 7, Edges can be glazed in low temperature or high temperature
- 8, Various size, Thickness and color available



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Ceramic Countertop

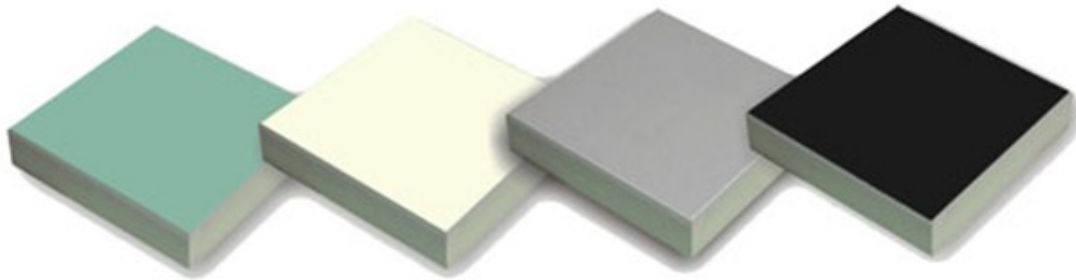
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Application

Ceramic countertop is the perfect choice for a range of laboratories

- 1, Teaching and research,
- 2, Medical and pharmaceutical operations
- 3, From universities to high schools
- 4, form fundamental and applied science researching centers to wide range of industrial organizations
- 5, from disease control and preventive medical departments to quarantine centers
- 6, From biological products and pharmaceutical factories to industrial and hospital labs
- 7, clinics and operation rooms

Color Range



Turquoise Blue green

Ivdry

Gray

Dawn Black

Product Specification

Type	Thickness	Size
Ceramic Countertop	20mm	4'×6' (1200×1800mm)
		4'×5' (1200×1500mm)





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Material Resistance Chemical Properties

Item	Result	Grade
NaOH(40%)	no distinct changes of color and glass on surface	1
H ₂ O ₂ (3%)	no distinct changes of color and glass on surface	1
HCL(37%)	no distinct changes of color and glass on surface	1
CH ₃ COOH(99%)	no distinct changes of color and glass on surface	1
H ₂ SO ₄ (98%)	no distinct changes of color and glass on surface	1
CCL ₄	no distinct changes of color and glass on surface	1
HF(48%)	no distinct changes of color and glass on surface	1
Na ₂ S(saturated)	no distinct changes of color and glass on surface	1
C ₆ H ₅ OH	no distinct changes of color and glass on surface	1
CH ₃ CHO(37%)	no distinct changes of color and glass on surface	1
H ₃ PO ₄ (85%)	no distinct changes of color and glass on surface	1
NH ₃ (28%)	no distinct changes of color and glass on surface	1



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Material Physical Properties

Item	Value	Unit	Standard
Water Absorption	< 0.03%	%	ASTM D570-98
Modulus of Rupture	42.6	Mpa	
Breaking Strength	1.01×10^4	N	
Thermal shock Resistance	no visible defects	/	
Flexural Modulus	0.9	/	
Abrasion(cycle)	2100	/	
Compressive strength	264	Mpa	ASTM D695-02
Coefficient of linear expansion	5.7×10^{-6}	$^{\circ}\text{C}^{-1}$	ASTM D696-03
Rockwell hardness	82	/	ASTM D789-03
Behaviour in fire(up to 1550 $^{\circ}\text{C}$)	no change	/	

Cleaning Ceramic Countertops

- 1, Start by removing any loose dirt or dust with a clean soft cloth. Dust removers, such as Swiffer Dusters, work well for this.
- 2, Fill two buckets or spray bottles with clean, warm water. If the counters are especially dirty, add a small amount (a drop or two) of dish soap or cleaner to the washing water.
- 3, Spray the surface with the washing water.
- 4, Use a soft cloth to scrub the surface of the tiles. Use an old toothbrush or small scrub brush to remove any dirt from the grout.
- 5, Rinse with clean water and wipe dry with a clean cloth.



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