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mai™
LAB CHEM
Collection



MALACHITE

WOODWORK

Laminates

Maica Laminates

2015

2015

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01

Maica Laminates... an Introduction

Maica is the place **Where Imagination Comes to Life**. Since we started in 1968, there is **Some things Never Change** in Maica, which elevated us into an international brand. maiFactory facilities and strict quality standards make Maica into a **1 Brand 1 Quality** manufacturer, and you can get Maica's product quality consistency no matter where you are. Our original quality raw materials and superior quality end products allow you to **Be Original** in your quest for the best. When you use Maica for your home or office interiors, you bring out your individual characteristics and sentiments, because we are **The Diamond Standard of Laminate Industry... the Maica Standard**. Ultimately, we are focused on **Making Life Better, Everyday**.

The world of chemical laboratories

There are a lot of safety rules to follow in the chemical laboratory, and the last thing you need is a laboratory table that gives you a lot of trouble when it comes in contact with the chemicals you are working on.

The ideal solution for chemical laboratories

Maica's mailab Chem is a high pressure decorative compact laminate manufactured especially for the chemical laboratory environment. With high resistance to chemicals, mailab Chem completes a worry-free and safety-first laboratory environment, so that you may concentrate on your work with the hazardous chemicals that demand your fullest attention.

Prolong lifespan of mailab Chem

- Do not chop, slice, pound or hammer directly on mailab Chem surface.
- Do not allow burning cigarettes to remain in contact with the laminate surface.
- Do not use steel wool or abrasive pads on mailab Chem surface.
- Do not use acidic or abrasive cleaning agents on laminate surface that can damage the surface.
- Do not use cleaning agents containing harsh chemical on the laminate surface even if mailab Chem has high chemical resistance, to prolong lifespan of laminate surface.

mailab Chem™ Product Quality Features:

Chemical Resistance

mailab Chem has proven chemical resistance with 24-hour test results for some of the most common hazardous chemicals used worldwide.

European Standard EN438 Compliant

All Maica products are manufactured based on the European Standard EN438, and mailab Chem is no exception. mailab Chem is categorized under the EN438-4.

European
Standard
EN-438

Singapore GreenLabel

Maica received certification from Singapore GreenLabel for products "Made from Sustainable Materials", signifying the use of sustainable raw materials.



Certification No.: 035 - 034
MADE FROM SUSTAINABLE MATERIALS
Certified under the Singapore GreenLabel
mailamine™ & mailcompact™

GREENGUARD

Maica realizes that indoor air quality is a worldwide concern, so mailab Chem is certified by GREENGUARD for two marks:

- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children & Schools Certified™



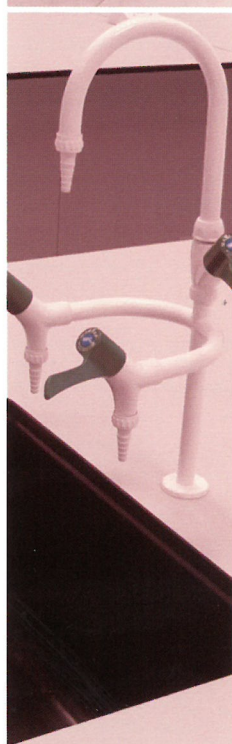
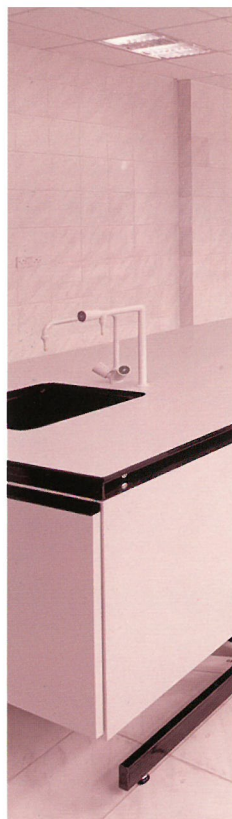
Termite Resistance

mailab Chem has termite resistance attributes, tested by the Forest Research Institute Malaysia (FRIM) against Subterranean termites, one of the most dangerous termites for buildings.



Totally Flat Surface

mailab Chem has a totally flat surface with straight edges, meeting the requirements of educational, scientific and medical laboratories worldwide.



Worry-Free, Safety-First

Maintenance of mailLab Chem is very simple. There is no special maintenance procedure; you may follow the standard laboratory cleaning and maintenance instructions. For general cleaning, you may use a clean, damp, non-abrasive cloth together with a mild soap, non-bleach detergent or cleaner on the surface of mailLab Chem. Rinse with clean water, using a clean, non-abrasive cotton cloth.

In the event of any chemical spill on mailLab Chem surface, first decide if you are trained, knowledgeable and equipped to handle the incident. **IMMEDIATELY evacuate the lab and notify your supervisor if there is a possibility of an acute respiratory hazard present or if you need assistance to clean up the spill.** Never attempt to clean up the spill if you do not know the hazards associated with the chemical or if you are unsure of how to clean up the spill. Most chemical spills will not cause discoloration or leave marks on mailLab Chem surface if cleaned within 24 hours. Some reagents may become more concentrated if allowed to evaporate on the laminate surface, therefore it is advisable to wash and rinse off

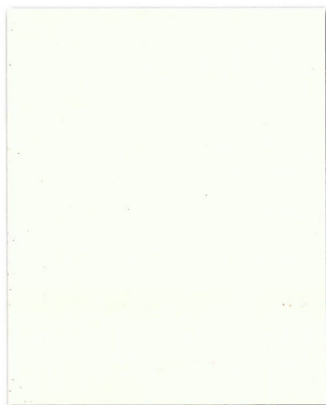
Size:

1530mm x 3670mm

Thickness:

13mm / 16mm
20mm / 25mm

CX- Chemyx



M 60100
Schnee

CX



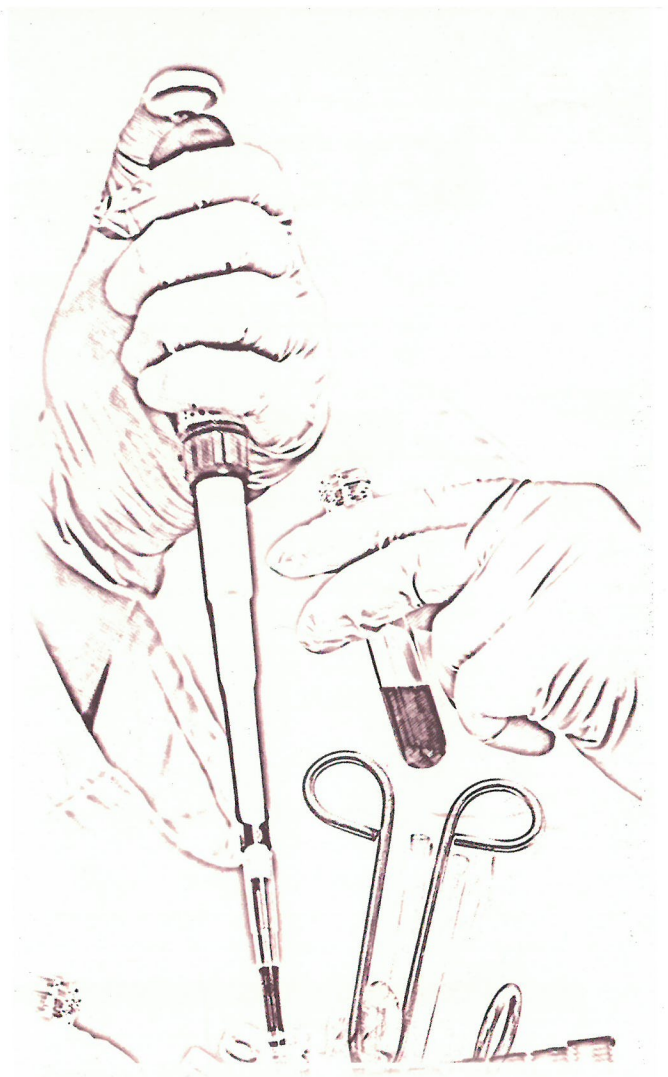
M 60200
Asche

CX



M 60300
Nacht

CX



maiLOB CHEM
Collection



CHEMICAL RESISTANCE

There are no "Failures" in our product with the use of any chemicals tested for a period of 24-hours contact time.

TEST METHOD:

The test was conducted by applying 2 or 3 drops of each reagent on the specimen surface. The reagent was at room temperature. After that, the reagent on the surface was covered with a watch glass.

After a period of 24 hours contact time under room temperature, the watch glass was removed. The reagent was rinsed off with water. Then the specimen surface was inspected and evaluated from various angles at a distance of 400 mm.

RATING:

No Effect : No visible change of colour / corrosion / damage on surface
Excellent : Very slight change of colour, only visible at certain viewing angles
Good : Slight change of colour on surface
Fair : Moderate change of colour on surface
Failure : Corrosion / damage on surface

Acid	
No Effect	Acetic Acid (98%), Acetic Acid (100%), Dichromate Acid (5%), Chromic Acid (60%), Formic Acid (90%), Hydrochloric Acid (10%), Hydrochloric Acid (37%), Nitric Acid (20%), Nitric Acid (30%), Perchloric Acid (60%), Phosphoric Acid (85%), Sulphuric Acid (25%), Sulphuric Acid (33%), Sulphuric Acid (77%), Sulphuric Acid (85%)
Excellent	Nitric Acid (65%), Nitric Acid (70%), Sulphuric Acid (96%), Sulphuric Acid (98%), Sulphuric Acid 77%:Nitric Acid 70% (Ratio 1:1), Sulphuric Acid 85%:Nitric Acid 70% (Ratio 1:1)
Good	Nitric Acid 65%: Hydrochloric Acid 37% (Ratio 1:3)
Fair	Hydrofluoric Acid (48%)
Bases	
No Effect	No effect on all bases used. Bases: Ammonium Hydroxide (28%), Sodium Hydroxide (10%), Sodium Hydroxide (20%), Sodium Hydroxide (40%), Sodium Hydroxide Flake
Biologic Stains	
No Effect	Alizarin Complexone Dihydrate (1%), Aniline Blue (Water Soluble) (1%), Carmine (1%), Eosin B (1%), Gentian Violet (Dye) (1%), Giemsa Stain (1%), Malachite Green Oxalate (1%), Methyl Violet 2B (1%), Methylene Blue (1%), Safranin O (1%), Sudan III (1%), Wright Stain (1%)
Excellent	Acridine Orange (1%), Basic Fuchsin (1%), Kongo Red (1%)
Good	Carbol Fuchsin (1%)
Halogens	
Good	Iodine 0.1 N
Fair	Iodine Crystal, Tincture of Iodine
Salts	
No Effect	Iron (III) Chloride (10%), Copper Sulphate (10%), Potassium Iodide (10%), Silver Nitrate (1%), Sodium Chloride (10%), Sodium Hypochloride (13%), Sodium Sulfide (saturated), Zinc Chloride (saturated)
Good	Silver Nitrate (saturated)
Fair	Potassium Permanganate (10%)
Organic Chemicals	
No Effect	Amyl Acetate, Benzene, Cresol, Dimethylformamide, Formaldehyde (37%), Gasoline, Hydrogen Peroxide (30%), Methyl Ethyl Ketone, n-Butyl Acetate, Phenol (90%), Xylene
Good	Furfural
Solvents	
No Effect	No effects on all solvents used. Solvents: Acetic Anhydride, Acetone, Acetonitrile, Butyl Alcohol, Carbon Tetrachloride, Chloroform, Dichloro Acetic Acid, Dichloromethane, Diethyl Ether, Dioxane, Ethyl Alcohol, Ethyl Acetate, Ethylene Glycol, n-Hexane, Methyl Alcohol, Methylene Chloride, Methylisobutylketone, Mono Chlorobenzene, Naphthalene, Tetrahydrofuran, Toluene, Trichloroethylene.

The results of the chemical tests in the chart above were based on the lowest result achieved for three different mailab Chem products: Nacht, Schnee and Asche. The individual exceptions to the results are as below:

Item	Group	%	Nacht	Asche	Schnee
a	Hydrofluoric Acid	48	Excellent	Fair	Excellent
b	Nitric Acid 65% : Hydrochloric Acid 37%	1:3	Excellent	Good	Good
c	Acridine Orange	1	No Effect	No Effect	Excellent
d	Kongo Red	1	No Effect	No Effect	Excellent
e	Iodine 0.1N	-	No Effect	Good	Good
f	Iodine Crystal	-	Excellent	Fair	Fair
g	Tincture of Iodine	-	Excellent	Fair	Fair
h	Silver Nitrate	Saturated	No Effect	No Effect	Good
i	Furfural	-	Excellent	Good	Good

Contact

Maica is ready to serve you better.
Contact us for more information,
we are in the business of
"Making Life Better, Everyday".



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