



富美家®特抗板全新上市









富美家®特抗板™



CHEMICAL RESISTANT LAMINATES by FORMICA GROUP

















关于富美家® About Formica®

富美家®公司创办人 Formica® Corporation Founders







Daniel J.O'Conor



Formica Group, Since 1913 the original inventor of laminate and continued

室内装饰材料设计的领导者

富美家®始于1913

耐火板的发明者,

design leader.





这个辛辛那提小工厂成立为"富美家绝缘材料公司"

The small plant in Cincinnati incorporates as "Formica Insulation Company".

富美家集团标识是世界上最知名的企业标志之一,从上世纪30年代简单的字形 发展成为80年代具有醒目的,融合简洁和戏剧性的现代时尚标识。

标志的演变 Formica's LOGO History







-----1940 s-----

-----1920 s-----

FORMICA







現使用



03

----1960s---

FORMICA

-----1970s--

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现代牛津英语辞典 (O.E.D)

Formica一词已经作为专用名词收入《现代牛津 英语词典》中,是现代防火板的代名词。 该辞典的第721页对于Fomica一词的解释为: 富 美家名词,商标。坚硬耐用塑料贴面,适用于 工作台,柜门及其他表面处理。

"As a professional word, "Formica" has been recorded in The Oxford English Dictionary, and as a replacement for decorative laminates."

富美家®公司于1913年由Herbert A. Faber及Daniel J. O'Conor在美国俄亥俄州辛辛那堤市 成立至今有100多年的历史。成立之初所制造的产品具备耐火、防潮、耐高温的特性,由 于是用来取代云母片(For-Mica), 因此命名为 "Formica" 一富美家。

富美家◎提供完成的表面饰材系列产品,包括高级装饰耐火板、抗倍特®、彩虹心®、金丽® 金属装饰耐火板、富美家®麗閣®真木皮饰板、富美家®创艺板TM、色丽石®、富美家®闪星 石及富美家抗化板系列等。选用优质产品,可以确保工程质量;富美家生产的装饰耐火 板符合ANS/NEMA (National Electrical Manufacturers Association) LD3-2008、欧洲BS EN438:2008标准, 并获得ISO 9001:2008,14001, OHSAS 18001 GREENGUARD 认证。 富美家在全球各地拥有工厂,并在亚洲地区的工厂分布于中国上海、中国九江、中国台 湾地区、泰国曼谷。

你不知道富美家;但,你早已置身其中了。

没有真正的实力,就无法满足设计师的品味与挑剔。富美家*能广受各界设计师与建筑师 的青睐,不仅表现在质量提升与服务水平的坚持,尤其是它不断研发与创新饰材,让大 师的灵感激荡出更多样创意。不论是公共空间或是私人居家, Formica®一个流传将近百 年的品牌故事, 将透过设计师的作品以及您的亲身体验, 继续缔造更多的空间传说。

Formica® Corporation, a multinational company, was founded in 1913 by Herbert A. Faber and Daniel J. O'Conor, who discovered that by using high pressure and plastic resins, high quality insulation materials for the booming electrical industry could be readily manufactured. Up until that point, other manufacturers were making the same products out of the minerals mica, thus, they coined their products For-Mica or "Formica®". With over 100 years of excellence in innovation and design, Formica have been setting the global benchmark for laminates ever

Formica® Corporation is committed to the development and promotion of new products and systems, aimed at creating more colorful visual images of space and a more convenient lifestyle. Formica® Door perfectly combines our unique product collections, such as Formica® Veneer, DecoMetal®, and Formica® Custom Graphic™, etc., to satisfy all design needs; in addition, also integrating different patterns, functions, surface materials, colors and finishes to create different styles of doors. Formica® Door can be widely used in many settings such as hospitals, schools, hotels, offices, commercial spaces, and more.

Formica® Laminate with the a variety of designs and finishes can style many different door panels designs, and offer outstanding performances such as impact resistance, heat resistance, dust resistance, easy cleaning, and low maintenance costs, etc.

富美家®可持续发展宣言

Formica® Sustainability Statement

富美家®集团坚持秉承可持续发展的宗旨来制造和销售我们的产品。我们致力于提升使用资源的效益,从而达到保护地球环境、资 源永续利用的长远目标。无论现在或将来富美家*将可持续发展视为一种商业美德和价值观,并将严格地遵守。随着国际社会越来 越关注可续性发展,富美家°集团将以为建筑师、设计师和消费者提供全方面的环保表面装饰材料作为战略重点。在富美家°集 团, 我们持续致力于开发新产品, 营造一个更加健康的环境。

Formica® Group is committed to making sustainable principles and practices a part of everything we do. We strive to adhere to the highest ethical standards as we advance in our efforts to protect vital resources for future needs.

With sustainability a concern for the global community, Formica Group makes it a priority to offer architects, designers and consumers a full range of environmentally friendly surfacing products. Formica® Group continually strives to create innovative products that promote a healthier environment. Find out more about how we're putting "green" principles into practice.

富美家®集团斥巨资在原材料、废料管理、能源管理和排放控制等领域的各类举措,使富美家®品牌装饰耐火板、抗倍特®金丽金属 Deco Metal®、CHquard®特抗板等产品获得 GREENGUARD® Indoor Air Quality Certified 的担保(符合低排放产品绿色标准,同时包括 特别针对儿童和学校相关要求的准则),与"绿色能源与环境设计先锋奖"联结。同时按照ISO14040的标准,对重要产品及其在整个 产品生命周期内对能源、水、废弃物和温室气体造成的影响,完成了多项产品的生命周期评估(LCA)。

Formica® Group has made considerable investments in material souceing, waste management, energy efficiency, and emission control. Formica® brand laminate, compact® are GREENGUARD indoor air quality certified® by GREENGUARD® environment institute under the GREENGUARD standard for low-emitting products, including the requirements or children&schools. Formica group has completed a LCA(life cycle assessment)in accordance with ISO14044, on key product and their environmental impacts on energy, water, waste and house gases across each of the products' full life cycle.





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Greenguard

富美家®品牌各类产品均在亚洲区取得由GEI所核准的GREENGUARD™ 与GREENGUARD™GOLD(特别针对儿童和学校的相关准则)。

Greenguard

Formica® laminate and DecoMetal® are GREENGUARD Indoor Air Quality Certified[®], meeting the green standard for low emission product, including relevant requirements or children and school rules.

认证 Certification:



OHSAS 18001:2007

OHSAS18000职业健康安全管理体系

OHSAS 18001:2007

OHSAS18000 occupational health and safety management system



ISO9001:2008

国际质量认证企业 ISO9001:2008

International quality certificated enterprise



ISO14001:2004

环境管理体系认证企业 ISO14001:2004

Environment management system certified enterprise



中国质量认证

富美家®符合强制性产品认证规则并获得中国质量认证证书。

China quality certification

Formica® meets the compulsory product certification rules and obtained China quality certification



中国绿色环保材料认证

富美家®高级装饰耐火板、富美家®特抗板™板、富美家®抗化板、富美家® 物理板获得中国绿色环保材料认证。

China green and environmental protectionmaterial certification Formica® laminate, Formica® Compact®, Formica® CHquard™, and Formica® physical board obtained China green and environment protection material certification.



Carbon Reduction Lable(減碳标签)

富美家®集团率先成为全球第一间荣获英国碳信托公司授予的碳减量标 签的表面装饰耐火板制造商。

Carbon Reduction Label

Formica® group becomes the first laminates manufacturer in the world to be awarded the Carbon Trust's Carbon Reduction Label.



FSC®COC(产销监管链认证)

富美家(中国)贸易有限公司已于2013年取得FSC®COC产销监管链 (Chain of Custody)验证。

FSC®COC (Chain of Custody certification)

Formica (China) Trading Co., Ltd. had been certified with FSC®COC (Chain Of Custody) certification.

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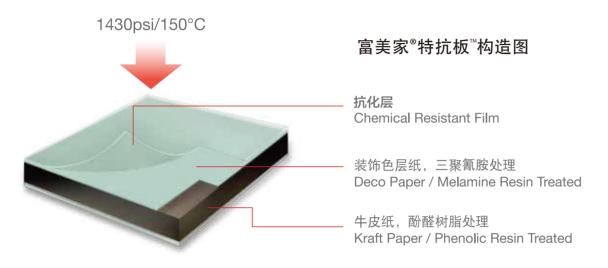
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富美家®特抗板产品介绍 Product Introduction

特抗板产品规格 Product Specification



富美家[®] 特抗板"由装饰色纸含浸三聚氰氨树脂,加上多层黑色牛皮纸含浸酚醛树脂,叠层后,再用钢板在高温(150摄氏度)高压(1430 psi)的环境压制而成,厚度可依需要从6mm到25mm皆可制作。

Compact laminate is forned by laminating decorative color sheet dipped with melamine resin and multi-layer black kraft dipped with phenolic resin and pressing with steel plate under high temperature (150 degrees centigrade) and high pressure (1430 psi). The thickness ranges from 6mm to 25mm by adjusting the number of pieces of kraft as needed.

合理规格板材,合理功能应用。 5'X 10', 5'X12', and 4'X8', 4'X10', each size type follows function.







5'X12' Extra Length Size | 加长规格板材

富美家[®]特别提供5尺规格板材,5′X 10′(1525X 3050mm),以及加长型特抗板[®] 5′X12′ (1525X3660mm) 超大型板材,对于中央实验台的设计具有经济合理的开裁独特优势。可一体成型,设立中央实验室层架和预留边置水槽位,无需拆分组装,使得一体化无缝无拼接试验台成为可能!

Formica® offer you with 5' lamInate - 5'X 10' (1525X 3050mm) and extra-long Compact grade™ laminate-5'X12' (1525X3660mm). It's economical and no-wasteful when at comes to design central experiment top, because the central experiment shelf and the cupboard for flume are set in integration, which makes integrated and seamless central experiment top possible.

特抗板产品色彩 Product Colors

四款花色,专业呈现!

引领专业潮流指标, 搭配不同色系、为您打造出高效舒适的色彩功能实验室环境。



Four new colors, professional presentation!

CHguard[™] launches 4 professional colors for functional application. With different color systems, tones make at will like the magic cube to build comfortable, high-efficiency functional laboratory environment with soft or lively vision.

^{*} 可提供其他花色产品定制,如有需要,可洽富美家销售代表。



富美家[®] 特抗板™系列产品不断致力于研发进取适合市场的新产品与高尖技术,伴随中国医疗卫生、教育科研领域实验室质量共同成长;并竭诚为营造出专业、舒适、高效的实验室环境,提供更贴心优质的售前售后服务,为您交出最为满意的一份成绩单。

Formica® is devoted to developing new products and high technology of CHguard® that meet the market demand and grows toghter with the quality of laboratories, educational and scientific research fields, we sincerely provide you with more considerate high-quality obefore sale and after-sale services and create a professional, comfortable and high-efficiency laboratory environment for you.

实验室

Laboratory

与实验室内的化学物品接触需要耐心和精确,所以我们把这项工作给穿白大褂的专业人员,而由我们向他们提供一个足以应付几乎所有突发事件的工作平面。

全新打造的富美家[®]特抗板[™]能更有效抵抗化学物品的侵蚀,在恶劣条件下表现更出色。

Qutstanding performance of chemical resistance is the significant characteristic of $CHguard^{TM}$. There are over 145 kinds of chemicals and reagents were tested with Formica® $CHguard^{TM}$.

医院

Hospital

在极力讲究卫生条件的生化及医疗研究工作环境内, 富美家[®]特抗板™不受各种药剂或试剂的接触影响, 在清理台面过程中也不用担心使用的各种有机溶剂及清洁剂会对实验台面造成影响。

Created by the inventors of high-pressure laminate, Formica® CHguard™ was specially formulated for easy maintenance under the harshest conditions.

教育科研院所

Educational & Scientific

在各种物理性实验室级学校机关的教学实验室,富美家®特抗板™耐撞击、抗磨损及不易 刮伤等坚固特性,加上易于切割与施工的便利性,不但能常保设备如新,更能按需求创 造理想中的实验环境。

Formica $^{\circ}$ CHguard $^{\circ}$, resitant to chemical, stains, impact and heat is the best choice for every kind of physical and educational institution.







富美家®特抗板™产品应用案例 **Project Reference**

专业机构 Institute

Jiangsu Research Institute of Metrology 江苏省计量科学研究院

Jiangsu provincial quality and Technical Supervision Bureau 江苏省质量技术监督局

Yancheng City product quality supervision and Inspection Institute 盐城市产品质量监督检验所

Xuzhou city food and Drug Inspection Institute 徐州市食品药品检验所

Taicang City, grain and oil quality testing center 太仓市粮油质量检测中心

Bengbu Center for Disease Control and Prevention 蚌埠疾病预防控制中心

Bozhou agricultural products quality inspection center 亳州农产品质检中心

Zhejiang Datang Wushashan Power Generation Co. Ltd. 浙江大唐乌沙山发电有限公司

Shandong Cody Zhen Pharmaceutical Co. Ltd. 山东科迪臻药业有限公司

China Medical and Biological Research Institute 中国医药生物研究所

Plant Research Institute of Chinese Academy of Sciences 中科院植物研究所

Dalian water plant 大连水厂

Changzhou siyao Pharmaceutical Co., Ltd. 常州四药制药有限公司

Nanjing Zhengda Tianqing Pharmaceutical Co. Ltd. 南京正大天晴制药有限公司

Lianyungang Kanion Pharmaceutical Co., Ltd. 连云港康缘药业有限公司

Jiangsu Nanjing cigarette factory 江苏中烟南京卷烟厂

Huaiyin cigarette factory factory 淮阴券烟厂厂





Beijing GE Industrial Park 北京GE工业园

Akzo Nobel Coatings 阿克苏.诺贝尔涂料厂

Daxing Dicision of institute of Medical Plant Development, Chinese Academy of Medical Sciences 中国医学科学院药物所大兴研究所大兴分部

China Acadeny of Chinese Medical Science 中国中医研究所

Institute of Nuclear Industry 核工业研究所

Institute of Environmental Science, CAS 中国科学院环境科学院

Beijing Entry-Exit Inspection and Quarantine 北京出入境检验检疫局

Quanzhou City in Fujian Province Exit Inspection and Quarantine 福建省泉州市出入境检验检疫局

杭州药品检验所

The Food and Drug Inspection Center of Henan Province 河南省食品药品检验中心

The Ningxia Hui Autonomous Prefecture of Quality and Technical Supervision and Detection 宁夏回族自治州质量技术监督检测所

Taicang Grain and Oil Quality Supervision and Testing Station 太仓粮油质量监督检测站

Tongcheng of Quality and Technical Inspection 桐城质量技术检测院

Xuzhou City Food and Drug Administration 徐州市食品药品监督管理局

Zhejiang Province Quality Test 浙江省质量检测院

Chongqing Waterway Bureau Monitoring Station 重庆市水文局监测站



Qingdao Haici medical group 青岛市海慈医疗集团

Yanbian Maternal and Child Health-Care Hospital 延边妇幼保健院,

Hainan Cancer Hospital 海南肿瘤医院

Dongguan Wangniudun hospital 东莞望牛墩医院,

Peking University Hospital 北京大学医院

Beijing Children's Hospital 北京儿童医院

Beijing Friendship Hospital 北京友谊医院

Huashan Hospital Pudong Fuden University 复旦大学附属华山医院东院

SunYat - Sen Memorial Hospital 孙逸仙纪念医院

Peking University International Medica 北大国际医药

Tongrentang Pharmaceutical Co. 同仁堂药业

Chaohu City No.2 People's Hospital 巢湖市第二人民医院

Gansu Province Maternity and Child Care 甘肃省妇幼保健院

Handan People's Hospital 邯郸人民医院

Shanxi Hospital of traditional Chinese medicine 山西中医学院

Shenyang People's Hospital 沈阳人民医院

Zhejiang Binjiang Hospital 浙江滨江医院

Affiliated Hospital of Zhejiang University 浙江大学附属医院

People's Hospital of Jiaxing in Zhejiang Province 浙江嘉兴人民医院

The No.2 People's Hospital of Zhejiang Province 浙江省第二人民医院

The People's Hospital of Chongging Banan 重庆巴南区人民医院

The People's Hospital of Chongqing Xiushan 重庆秀山人民医院

The No.2 Affiliated Hospital of Chongqing Medical University 重庆医科大学附属第二医院

The No.1 Affiliated Hospital of Chongqing Medical University

重庆医科大学附属第一医院



富美家®特抗板™产品应用案例

Application's Project Reference



Sichuan Agricultural University 四川农业大学

Sichuan University 四川大学

West China Hospital 华西医院

Southwest Petroleum University 西南石油大学

Chengdu Medical College 成都医学院

Guangzhou Medical University 广州医科大学

Department of Environmental Engineering, Maoming Petroleum Institute 茂名石油学院环境系

Department of Chemistry, Zhongkai University of Agriculture 仲恺农业学院化学系

South China Agricultural University 华南农业大学

高等院校 University

Nanjing University 南京大学

Nanjing Medical University 南京医科大学

Nanjing Agricultural University

Nanjing University of Chinese Medicine 南京中医药大学

Nanjing Normal University 南京师范大学

China Medicine University 中国药科大学

Soochow University 苏州大学

Yangzhou University 扬州大学

Jiangsu University 江苏大学 Nanjing University of Science and Technology 南京理工大学

Nanjing University of Information Science and Technology 南京信息工程大学

Nanjing University of Technology 南京工业大学

Yancheng Normal University 盐城师范大学

Hefei University 合肥学院

Anhui University 安徽大学

University of Science and Technology of China 中国科技大学

Hefei Polytechnic University 合肥工业大学

Gansu Agricultural University 甘肃农业大学



a美家®特抗板™产品技术参考 Performance Compliance

富美家[®]特抗板[™]符合以下国家检测及标准: 富美家特抗板理化性能(32项) GB/T 17567-2013 (型式检验) 富美家特抗板物理性能 GB/T7911-2013 (型式检验)

物理性能

检验项目		标准规定值	单项判定
耐沸水性能	质量增加%	≤ 10	合格
	厚度增加%	≤12	合格
	外观	不低于3级	合格
耐干热性能	外观光泽	不低于3级	合格
抗大球冲击性能 (224g, 1m)	凹痕直径mm	≤10	合格
表面耐磨性能 转		≥350	合格
耐污染性能		不低于3级	合格
耐香烟灼烧性		不低于3级	合格
总尺寸稳定性	横向	≤ 0.7	合格
(70度, 24h)	纵高	≤ 0.3	合格
耐湿热性能		不低于3级	合格
耐水蒸气性能		不低于3级	合格
抗拉强度, MPa	横向	≥59	合格

耐划痕

检验项目	标准规定值	判 定 结 果
耐刮划性 (金刚石划痕法)	≥ 1.5 N	合格 (1级,5N无明显划痕)

甲醛释放量

检验项目	标准规定值	判 定 结 果
甲醛释放量	$E_1 \leq 1.5 mg/L$	合格



富美家®特抗板™产品技术参考 Performance Compliance

以下32项试剂参照GB/T 17657-2013 "人造板及饰面人造板理化性能试验方法" (4.41 表面耐污染 性能测定-方法2中室温24h 测试条件)进行检验,试验结果为最优等级:5级(无明显变化)。

丙酮 ◆盐酸37%◆铬酸60%◆重铬酸◆三氯甲烷

● 王水 ●硝酸65% ● 氢氟酸48% ● 二甲苯 ● 四氯化碳

● 氢氧化钠40% ● 甲醛/福尔马林"37% ▼甲酸90% •石碳酸苯酚90% • 同比例70%硝酸、77%硫酸混合液

甲苯 ●硫酸98% ●硫酸铜

• 乙醚 • 氨水28% • 正己烷

• 汽油 ●磷酸85%● 双氧水3%● 冰醋酸98%● 高锰酸钾

• 硫化钠饱和液 ● 7. 輕/洒精 ● 硝酸银饱和液 ● 香蕉水/天那水

●四氯化碳 ●碘酊/碘酒 ●重铬酸钾清洗溶液

*具体检测报告可向富美家销售索取

Chemical and Stain Resistance | 抗化抗污染 (富美家内部测试)

Science Laboratoies 科学实验室用品

Carbolic Acid (phenol),85%_85%石碳酸(酚) Citric Acid, 10% 10%柠檬酸 Glacial Acetic Acid 冰酷酸 Perchloric Acid, 60%_60%高氯酸

Potassium Hydroxide, 15% 15% 氢氧化钾 Sodium Carbonate, saturated_饱和碳酸钠

Solvents 溶剂

Amyl Acetate 乙酸戊酯 Benzene_苯 Cresol田酬

Denatured Alcohol 变性酒精 Dioxane_二恶烷

Ethyl Acetate一乙酸乙酯

Furfural 糠醛

Methyl Ethyl Ketone_甲乙酮 Methylence Chloride_二氯甲烷

Mineral Spirits 矿物油精 Naphtha 石脑油

Tetrahydrofuran 四氢口夫纳 Trichlorothylene_三氯乙烯

Other Reagents_其他试剂

Calcium Hypochlorite 次氯酸钙 Ferric Chloride, 10%_10%氯化铁 Phenolphthalein, 1% 1% 酚酞 Sodium Bisulfite_亚硫酸氢钠 Sodium Chloride_ 氯化钠 Zinc Chloride 氯化锌

Hospital and Health Care 医院与医疗用品

Amyl Alcohol 异戊醇 Aniline Blue, 2.5% 2.5%苯胺蓝 Bromocresol Green Solution_ 溴甲酚绿溶液

Coal Tar Solution, 20% 20%煤焦油溶剂

Detachol Adhesive Remover _ Detachol | 体用黏胶去除剂

Eosin Solution_伊红溶液

EucalyptoL桉叶油酚

Ferric Subsulfate Purified, 13-14% 13-14%分析纯硫酸亚铁

Gentian Violet, 1% Solution 1% 龙胆紫溶液

Giemsa Bloodstain 吉姆萨血液染色液

Glycerinum lodi Composilum 碘甘油

Hematoxylin_ 苏木精

Hydrogen Peroxide, 3% 3%过氧化氢

Hydrogen Peroxide, 20%_20%过氧化氢 Lodine Tincture, USP, 2% 2%碘酒, USP

Isopropyl Alcohol_ 乙丙醇

Mercurochrome® 红汞

Methyl AlcohoL 甲醇

Methylene Blue 亚甲蓝

Mineral Oil 矿物油

Petroleum Jelly 凡士林 Povidine lodine 优碘刷手液

PVP lodine Swab PVP 碘海绵

Steri-strip,1554 Benzoin Tincture_ 免缝胶带, 1544安息香酊

Thimerosal硫柳汞(局部抗菌剂)

Tincture Benzoin Compound_复方安息香酊

Tincture Methiolate_ 硫柳汞酊

Wrights Blood Stain_赖特染血剂

Zephiran Chloride, 17% 17%苯扎氯铵

Zinc Oxide_ 氯化锌

Mortician Supplies_ 殡葬用品

Formalin 65%_65%福尔马林 Cavres Cavity Trioxn_ 变色剂 ColoroDye#1 克罗罗染色#1 Dri-Cav Cavity Fluid_Dri-Cav 体腔液 Glo-Tone Arterial Fluid Glo-Tone脉液 Hexaphene MA37 Autopsy Gel_已芬 MA37 解剖胶 Inr-Tone Dve #3 Inr-Tone 染色#3

在外观检查与测定以前, 所列出的化学药品与试剂以覆盖方式(表面皿)与特抗板™表面直接接触16小时。以上所列的试剂多数未能 损伤特抗板™的表面,然而根据接触时间长短,部分试剂可能引起特抗板™表面轻微的光泽或颜色变化。富美家°建议您用湿布与中性 洗涤剂立即清除所有溅出物,如同对待高级家具表面那样。若您对任何一种不在列表内的化学药品有疑问,请洽富美家°销售或技术服



Jaundice Spec. Arterial Fluid_Jaundice Spec. 动脉液 NuLeco Chemical Cauterant & Presservative NuLeco化学腐蚀及防腐剂 Plasdo-25 Arterial Fluid_Plasdo-25 动脉液 PLX Arterial Fluid PLX动脉液

Dental Supplies 牙科用品

Acrylic Bonding Cement_亚克力黏结水门汀

Amalgam 汞合金

Disclosing Tablets_显示药片

Enthat Phosphoric Acid Etch, 37%_37%磷酸牙蚀

Eugenol 丁香酚

Fluoride Rinse 含氟漱口水

Germicaidal Disposable Cloth_杀菌一次布

Photo Lab Supplies 照相实验室用品

D-76 Developer_D-76 显影剂

General Purpose Fixer 定影剂

Hypo Clearing Agent_海波清洗液

Indicator Stop Bath 指示停显液

Rapid Fixer with Hardener_含硬化剂的快速定影剂

C-41 Processing (developer A, developer B, developer C.BLIX A.BLIX B, BLIX C, stabilizer)_C-41冲洗剂(显影剂A, 显影剂B, 显影剂C, BLIX A.BLIX B,

Rapid E-6 for color sides (1st developer BLIX A, BLIX B, BLIX C)_

色片用快速E-6(第一显影剂,彩色显影剂A,彩色显影剂B, BLIX A, BLIX B, BLIX C)

General Reagents 通用试剂 Cellosolve_乙基溶纤剂

Detergent_洗涤剂 Gasoline_汽油 Kerosene 煤油 Lysol® brand disinfectant来沙儿消毒水

Nail Polish Pemover_指甲去光水 Pine Oil 松树油

Sodium Hypochlorite, 5%(Clorox®)_5%次氯酸钠(Clorox牌)

Trisodium Phosphate, 30%_30%磷酸钠

Urea. 6.6% 6.6% 尿素 Vegetable Oil 植物油

Harsh Household Product 腐蚀性家用产品

Bluing: Mrs.Stewart's® concentrated liquid bluin 衣用漂白: Mrs.Stewart's®

牌浓缩液体衣用漂白剂

Ceramic Cooktop Cleaners: Cook Top cleaning creme for smooth top ranges.

瓷灶面清洗剂: COOK TOP灶面清洁膏

Chorine Bleaches: Clorox regular, Mr.Clean® with bleach, Comet® Cleaner with bleach_含氣漂白剂: CLOROX普通型, Mr.Clean®含漂白,

Comet®含漂白清洗剂

Coffeepot Cleaners: Mr.Coffee cleaner咖啡壶清洗剂: Mr.Coffee®清洗剂 Countertop Cleaners: Lysol antibacterial kitchen cleaner, Crystal Drain Openers:Lewis Red® Devil Lye® drain opener_厨房台面清洗剂:来沙尔抗菌 厨房清洁剂。结晶下水道疏通剂: Lewise Red® Devil Lye®下水道疏通剂 Hair Colorings: Miss Clairol® creme formula-black velvet, Clairol Pure White® creme developer_染发剂: Miss Clairol膏状配方-黑天鹅绒, Clairol Pure White®双氧奶

Lime Removers: Lime-A-Way® extra, Comet® nonabrasive lime scale Remover CLR去石灰剂: Lime-A-Way®特效,Comet®无磨砂石灰片去除剂,

Liquid Drain Openers: Liquid-Plumber®, Drano®_液体水道疏通剂:

Liquid-Plumber®, Drano®

Metal Cleaners: Cameo® copper cleaner, Tarn-X®_金属清洗剂: Cameo®铜清

Mildew Removers: Tilex® instant mildew remover, Johnson Wax® Vanish Mildew Plus stain remover.

with bleach + cleaner_Tilex®除霉剂®快速除霉剂,Johnson Wax®除霉漂白清

Oven Cleaners: Easy-Off® heavy-duty oven cleaner,

Rust Remover: Duro Naval® Jelly rust dissolver Toilet Bowl Cleaners: Lysol®

SNOBOL® liquid disinfectant toilet bowl cleaner,

Sani-Flush® chlorine thick liquid bowl cleaner, The Works® liquid toilet bowl cleaner 烤箱清洁剂:

Easy-Off®强力烤箱清洁剂。除锈剂: DuroNaval®除锈凝胶。厨具清洁剂 Lysol®厨具清洁剂,SNOBOL®液体消毒厨具清洁剂,

Sani-Flush®含氯厨具清洁浆| The Works®液体厨具清洁剂

ANSI/NEMA Reagents — ANSI/NEMA 试剂

Acetone 丙酮

Betadine® Betadine 消毒剂

Catsup_酱汁

Citric Acid, 10%_10%柠檬酸 Distilled Wate 蒸馏水

Fthanol 50% 50% 7. 醇

Fresh coffee 新鲜咖啡 Household ammonia 家用氨水

#2 Pencil 2号铅笔

Purple Supermarket Stamp Pad ink 紫色超市打印油 Shoe Polish 鞋油

Tea Bag 茶包

Vegetable Oil 植物油

Wax Crayon_ 蜡笔 Yellow Mustard_ 黄色芥末

The chemicals and reagents listed were placed in contact with the surface of the CHguard laminate in a covered method (watch glass cover) for a period of 16 hours prior to visual examination and evaluation. Most reagents listed above did not damage the surface of the CHguard" laminate. However ,some reagents may cause slight change in gloss or color, depending upon the duration or exposure. Period of exposure and concentration of chemicals. We recommend prompt clean of all spills, using a damp cloth and mild detergent like dealing with your fine cabinetry surfaces. If in doubt about the suitability of a particular chemical which is not listed above, please check with your Formica®contacts for further inquiry.



富美家®特抗板™产品的使用与维护 Fabrication and Maintenance

Fabrication and Assembly | 加工与组装

Limitations | 限制

Formica® CHguard™ is not recommended for application directly to plaster, gypsum board, or concrete. It should not be used in areas where temperatures exceed 275°F (135°C) for prolonged periods of time, or for exterior applications.

Do not expose to continuous direct sunlight. Do not chop, slice, pound or hammer on the surface of Formica® CHGuard.

NOTE: CHguard™ should be protected from damage caused by high heat, such as heat created from Bunsen burners. The Bunsen burner should be placed on trivet to protect the laminate surface.

NOTE: Formica® CHguard™ incorporates a special integrated coating which gives the product its chemical—resistant properties and a slightly different hue from its corresponding standard high pressure laminate (HPL) item. This color difference does not constitute a defect. Make sure to review actual Formica® CHguard™ samples before specifying. But joint matches between Formica® CHguard™ and standard HPL are not recommended, while horizontal/vertical matches are acceptable. It is highly recommended that Formica® CHguard™ be used for entire project as standard HPL will not provide chemical resistance.

富美家°特抗板™不应直接用于灰泥,石膏以及混凝土墙,不应在持续温度超过275°华氏〈135°摄氏〉的环境且不应在室外使用。 不能暴露在持续直射光下。不能在富美家°特抗板表面斩剁、切 割、或重力槌击。

注意:由于煤气灯等产生的高热量会损坏抗化板,为了保护特抗板表面,应把煤气灯放置在三角架上使用。

注意:富美家°特抗板™的特殊抗化涂层使它的色调与相应的标准高压火装饰板有轻微差别,此色差不构成产品缺陷。请于订货前务必查看富美家°特抗板™的样品。建议不要将富美家°特抗板™与普通耐火板对接,但可以进行水平或垂直搭配。同时,鉴于普通耐火板无特抗板保护,建议将特抗板用于整个工程项目。





应存放于阴凉干燥场地,避免阳光直射 和直接放在地面上,避免受潮。最佳存 放条件是18-25℃,相对湿度45-55%, 存储时间不豁过6个月

Storage | 储存

Formica®CHguard™ should be stord horizontally, face-to-face and back-to-back with the top sheet turned face down. A caul board should be placed on top to protect the material from possible damage and reduce the chance of warpage of the top sheets. The material should be protected from light, heat and moisture and should never be stored in contact with the floor or an outside wall. It is important that CHGuard be stored at a temperature not less than 60°F (16°C) and a relative humidity not less than 40%

富美家°特抗板™应以水平、面对面、背对背、表面朝下的方式存放并且应在最上面放置垫板以防止材料可能的损坏并降低表面翘曲的可能性。注意避光防潮防热并且避免将产品与地面或者外墙直接接触。请将产品存放在温度不低于60°华氏(16°摄氏)和相对湿度不低于40%的环境中





成品和半成品在包装或存放时,底部和 顶部分别使用垫板和盖板,以隔绝潮湿 空气对上、下板子单面的影响,防止产 牛翘曲





保证堆放整齐,尺寸小的板材叠于尺寸大的上面,以维持受力的均衡;台面做好假边后,堆放时中间放置适当同样厚度的边方,堆放时中间放置适当同样厚度的边条垫实,避免板材受力不均(在中间无2-3条边条的条件下)

Preconditioning | 预处理

Formica®CHguard™ and substrates gain moisture and expand under high relative humidity conditions, and lose moisture and shrink under dry relative humidity conditions. Prior to fabrication, allow the Formica®CHguard™ laminate and the substrate to acclimate for at least 48 hours at the same ambient conditions. Optimum conditions are approximately 750°F (24°C) and relative humidity of 45% to 55%. Provisions should be made for the circulation of air around the components. Formica®CHguard™ moves about twice as much across the grain as it does in the length direction (sanding direction). Whenever possible minimize the dimension of the cross-grain direction.

NOTE: Stress cracking can result when high-moisture material is glued and subsequently exposed to low humidity conditions. Excessively dry material may expand and cause bubbling if improperly glued.

富美家°特抗板™与基材在相对湿度高的环境中会吸潮膨胀,而在 干燥及相对湿度低的环境中又会失水收缩。在加工之前,请将富 美家°特抗板™与基材在相同的环境中放置至少48小时。最佳的环 境条件应为75°华氏(24°摄氏)左右以及45%-55%的相对湿度,还 应确保物件周围的空气流通。富美家°特抗板™的横向膨胀为纵向 膨胀的两倍,所以在尽可能的情况下,请把横向间距减至最低。

注意: 当很潮湿的材料黏合后暴露在低温环境中, 可能产生受力开裂现象。而如黏合不当极度干燥的材料又可能膨胀起泡。

Cutting | 切割

Formica®CHguard™ has a special chemical-resistant surface. We recommend the use of sharp, carbide tipped cutting blades with low or negative hook profiles. Low feed speeds and high tool speeds are also suggested. A feather board should be clamped to the saw fence to stabilize the stock and prevent chatter, producing safer, cleaner cuts.

富美家[®]特抗板™有特殊的抗化表面。我们建议使用锋利的碳合金刀具,并且以中性角或负角进行切割。 建议低速进给, 高速切割。在铝台上应使用夹板以稳固手柄避免抖动, 从而使切割更安全切口更平整。

Fabricating | 加工

To prevent from breaking, the inner corner shall remain at least 3R arc angle instead of the 90 degree right angle when inserting or punching hole on the board.

为避免因应力集中而引起的开裂,在挖洞时应避免出现锐角,所有内角的转角部分均建议保留最小弯曲半径为3.175mm的圆弧,其余边角应修平滑.





板材裁切时沿长度方向裁切,以保证板材 拼接时的同向拼接。贴有富美家®合格证贴 纸的为产品正面,使用时正面朝上

Handling |搬运

The Formica®CHguard™ product need to cover with protective film. Make sure to lift the board with supportive tools or machine when you are moving it that can prevent from dragging, knocking and damage from the surface and at the corner part.

特抗板™表面必须覆保护膜,取用特抗板时一定要抬取,绝对避免 在特抗板表面上拖动、碰撞,防止表面划伤和边角破损。 其余边角应修平滑。





取用时一定要两人以上同时抬取,绝对避 免在产品表面的拖动、碰撞,防止表面划 伤和边角破损

Installation | 安装

If used as the counter top, 13mm of Formica®CHguard™board need to have overall structure to handle the load. Also suggest having the liquid-Stop Side wall that is over 20 mm.

使用较厚的板材加工时则需加固结构, 挡水假边宽度必须大于 20mm, 具体可咨询富美家相关人员。

For piecing in the same surface, it's necessary to use with same direction of product, and make use of the hardware to connect. If gluing is necessary, suggest using epoxy adhesive.

同一个拼接面的C-SPC之间的安装拼接必须按照产品的横向或纵向同方向进行拼接,并采用3mm厚度的瓜子片衔接,粘结部分建议使用AB胶、环氧胶等。

When connect with other construction material, allowance is suggested to have with over 10 mm.

与墙面或其他建筑材料连接时,必须留出足够的空间,建议大于10mm。





使用于台面安装时,必须使用螺丝固定 法,同时每间隔80cm使用直角五金固定 ,并采用直径5mm左右的平头螺丝固定 直角五金,钻孔采用带限位的枪钻以防 钻孔深度过大穿透表面 To use as the lab counter top, fixed with screw is necessary and for every 50 cm, need to fix with right angle hardware. When condition is necessary, it can be strengthen by adding horizontal metal bars in the back. And notice not to penetrate through the board when using screw to fix.

与墙面或其他建筑材料连接时,使用于实验室桌面时,必须使用螺丝固定法,同时每间隔50cm使用直角五金固定,并采用直径5mm左右的平头螺丝固定直角五金,必要时应在抗化板背面加置横档,钻孔采用带有限位的枪钻以防钻孔深度过大穿透表面。

To install as the lab counter top, allowance Space between 2 pieces is necessary that can prevent from bending of expansion, especially in a possible wet area or environment. To seal the edge with silica gel is the solution also avoid the edge nearby the water tank.

安装实验室台面时,必须在两块板的接缝处留空间防止台面膨胀 而造成弯曲。在潮湿的环境里,使用可调节接口预留板材的膨胀 空间。使用硅胶封闭接口,但水槽附近避免有接口也应避开接 缝。

Please take off the protection film away after installation is completed, otherwise the board may have the chance to deform after a period of time.

结束后应立即撕去抗化板表面的保护膜, 否则在长时间下容易产生受力不均而变形。

特别声明:如由于用户使用方法、使用基材、使用环境或加工不当而造成该种抗化板不能发挥正常使用功能或造成其他质量问题,富美家公司不承担任何责。





时保留,以保证产品两面受环境因素的影响程度一致; 台面做好四周的假边后,保留两边的保护 腱,切勿单面撕膜,以免影响产品单面撕 膜造成翘曲,如果条件允许,建议中间加 2-3条边条,加制板子细电

Use and Care | 使用和保养

Formica®CHguard™ laminate surfaces may be cleaned with a damp cloth and mild detergent. Use of abrasive cleaners, powders, scouring pads, steel wool, sandpaper, etc., will damage the finish and can permanently reduce the stain and chemical resistance of the laminate. Good laboratory practice dictates that all chemical spills should be wiped uo promptly. Stubborn stains may be removed by use of organic solvent or hypochlorite bleach, followed by wiping with soft, damp Cloth. If in doubt about the suitability of a particular cleaner or detergent, check with its manufacturer.

富美家*特抗板**表面可用湿布与中性洗涤剂清洗。使用含磨料清洁剂、粉剂、百洁布、钢丝球及砂纸等会损伤产品表面并且可能永久降低产品的抗化与抗污染的能力,按照正确的实验操作规定,应立即擦拭化学溅出物。对付顽固污渍,可以先用有机溶液或高氯漂白剂,然后用柔软的湿布擦拭。如果对任何清洁剂或洗涤剂的适用性有疑问,请向生产厂家确认。

如需要进一步了解相关信息请登陆富美家官方网站 www.formica.com 查询