

由Sustainable Chemistry™提供技术支持

fsi
Coating Technologies



36 年产品创新
全球公认的防雾涂覆系统领导者

fsicti.com

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sdc
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目录

- **产品概述**
 - 历史和技术概况
 - 足迹
 - 技术、分销、和支持
 - 质量, 眼科, 眼科
 - 业务规划、价值观、行为和趋势
- **服务市场**
 - 环境政策
 - 建筑和建筑物
 - 汽车及运输, 航空航天
 - 浴室镜子和浴室门
 - 商用冷冻柜展示柜
 - 电子产品, 医疗及安全
 - 温室和暖房
 - 军事及国安, 军事及国安
 - 特种及客户定制应用
 - 太阳眼镜 及运动眼镜
- **产品概述**
 - 产品线
 - 特点和优点
 - 产品, 基材和涂料选项
 - 防雾, 温室和暖房, 底涂, 薄膜及片材, 可成型产品套件
 - 形成可能製品群
- **摘要**
 - 充分利用技术合作伙伴关系
 - 增强产品性能
 - 全球分销和支持



持续改善的涂料

始创于1986年



37 年产品创新

- 1986 年 Film Specialties, Inc. 成立, 开发有效的防雾和耐磨涂料
- 2010 年 被三井化学子公司SDC Technologies, Inc. 收购
- 2010 年 更名为FSI Coating Technologies, Inc., FSICT的品牌重塑包括新网站fsicti.com
- 2011 年 搬迁到加州西海岸后开始扩张
- 2012 年 推出Visgard® Premium LFT-300薄膜和Vigcard Premium Plus防雾涂料
- 2013 年 SDC Technologies Asia-Pacific在新加坡设立办事处
- 2016 年 推出Visgard Premium和Visgard Elite防雾涂料
- 2017 年 SDC将LTI Coating Technologies的紫外线固化涂料和设备整合到集团旗下, 完成了对该公司的并购
- 2020 年 SDC收购了COTEC® GmbH薄膜和涂料技术
- 2021 年 推出Visgard紫外线防雾涂料、紫外线固化涂料和设备
- 2022年, SDC收购了Coburn Technologies, Inc., 该公司在眼科设备、耗材和镜片生产所有阶段的服务方面处于领先地位。



防雾技术先驱

- 优质防雾和耐磨涂覆系统以及薄膜的全球领导者
 - 将纳米技术与溶胶-凝胶化学相结合
- 前沿研究和专有专利技术
 - 推进防雾凝结控制学发展
- 为各种基材提供独特的涂层方案
- 支持多个垂直市场
- 全球分销网络

足迹

英国威尔士
SDC欧洲
销售和营销,
客户关怀
分销和分销



COTECH

COTECH GmbH
德国卡尔施泰因

日本东京
Mitsui Chemicals, Inc
办事处



中国上海
SDC 中国
业务开发
客户关怀
技术支持




Coburn
Technologies
销售和营销,



SDC Technologies Asia Pacific, Pte. Ltd.
SDC 新加坡
业务开发
产品开发
客户关怀
制造
销售和营销,
分销和分销

SDC TECHNOLOGIES 总部

SDC
Technologies

FSI
Coating Technologies

尔湾市, 加利福尼亚

FSICT 公司总部
产品开发
制造
销售和营销,
客户关怀
分销和分销

COBURN
TECHNOLOGIES HQ





先进技术
全球分销和支持

技术/产品开发

- 致力于发现新技术的资深化学家精英团队
- 世界级高性价比涂料，产品寿命长

制造/分销

- 大/小批量自主专业制造
- 降低供应链复杂性，加快产品上市速度
- 全球及时配送（JIT）

全球技术支持/客户关怀

- 技术应用咨询专家，确保高产
- 可使用最先进的设备进行实验室规模的可行性研究
- 快速响应专职支持团队，确保结果卓越、一致



环境可持续性和安全企业管理者

品质政策

- 在所有工作中追求品质和安全
- 持续改进我们的流程和产品

安全政策

- 遵守全球范围内所有包装和**运输**法规
- 参与外部监督和内部认证审计

常温下稳定

- 制造环保节能的涂料
- 倡导将安全和创新的产品推向市场





核心业务规划



我们的愿景

- 通过与客户的合作创造价值
- 提供不折不扣的服务
- 促进多样性和环境责任



我们的使命

- 提供优质的高性能涂层技术
- 专注于提高产品性能和耐久性
- 持续开发新一代涂料



Promoting Innovation Committed to Creativity

- Respect and value people and the planet
- Develop and support passionate, imaginative and enterprising thinking
- 鼓励诚信，赋予责任
- 参与和倡导多样性和尊重
- 以身作则，不断寻求改进
- 不断创新，追求品质和卓越
- Community commitment, support for charitable organizations

Code of Business Conduct



Honesty, Respect, Confidentiality & Compliance



- Customer focused, dedicated to developing innovative high-quality products and services
- Confidentiality, non-disclosure of company, supplier and customer information (NDA's)
- Ethical acquisition and use of business intelligence
- Respect for third-party intellectual property
- 公平竞争和贸易惯例
- Environmental conservation
- Health and safety protection

商业环境趋势



Customer Needs – 竞争优势

全球一致性

- 全球布局
- Brand support

尖端技术

- Continuous innovation
- Differentiated performance

高效的价值链

- 更少的供应商
- 高性价比解决方案
- 灵活、适应性强的供应基础
- 应用专业知识





市场

Commercial, Industrial & Medical



- 防雾薄膜应用
 - 建筑和建筑物
 - 汽车及运输
 - 航空航天
 - 浴室镜子和浴室门
 - 商用冷冻柜展示柜
 - PET Film & Industrial Sheet
- 电子产品
 - Greenhouse Anti-Fog Film
 - 医疗及安全
 - 军事及国安
 - 军事及国安
 - 特种及客户定制应用
 - 太阳眼镜 及运动眼镜



Enhancing Visual Clarity & Personal Safety

产品特性

- Pre-cured coat-film delivers permanent Anti-Fog performance
- 可水洗硬化涂料和膜
- Highly durable, abrasion, scratch, chemical, mar, impact & UV resistance
- 出色的光学透明度、更加安全驾驶和导航
- Weatherable, will not discolor with exposure to sunlight
- Compatible with adhesives & anti-reflective (AR) coatings
- Improves safety, encapsulating and reducing occurrence of shattering glass
- Easy to install, Anti-fog surface with water clear masking release liner protects the coated surface during installation
- Easy to maintain with household ammonia-free glass cleaners



应用

- 汽车及运输: 窗户、天窗和 windscreens, instrument gauges
- Bathroom: Mirrors, windows, shower & steam room doors, saunas
- 商业冷冻箱和 德里陈列柜
- 电子产品: HUD, LED & outdoor digital billboard displays



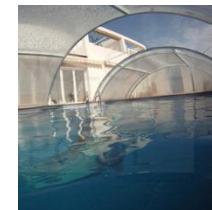
Innovative Energy Efficient Coatings & Film

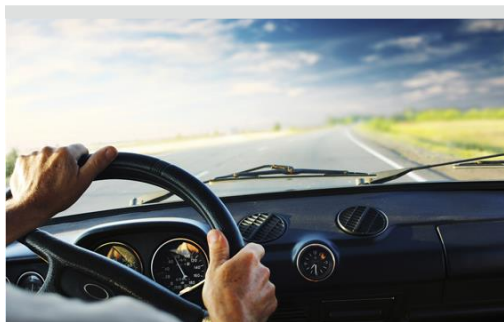
产品特性

- 可水洗硬化涂料和膜
- Excellent resistance abrasion, scratch, chemical, fog, impact, mar & UV radiation
- 出色的光学清晰度和可表面印刷
- 优质耐候性和户外耐久性
- 可染色、与防反射、镜面与金属化处理相兼容
- Improves safety, encapsulating & reducing occurrence of shattering glass

应用

- Canopies, curtains/walls, domes
- Doors, enclosures, lights
- Panels, walkways, windows





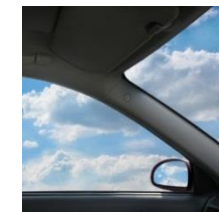
High-Performance Solutions Improving Durability & Optical Clarity

产品特性

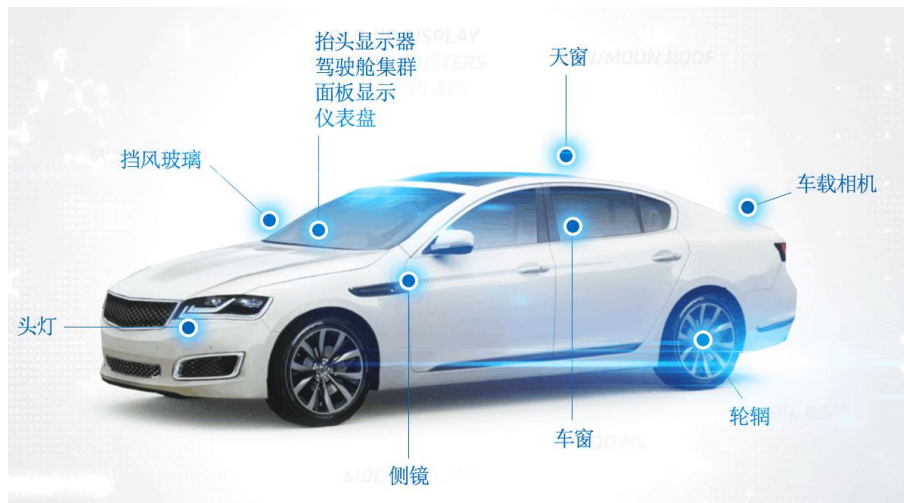
- 可水洗硬化涂料和膜
- Anti-Fog, abrasion, scratch & chemical resistance
- 出色的光学透明度、更加安全驾驶和导航
- Premium weatherability, outdoor durability & UV protection
- Tintable, compatible with adhesives, AR coatings & mirror treatments
- Improves safety, encapsulating & reducing occurrence of shattering glass

应用

- 汽车及运输：窗户、侧镜和摄像系统、挡风玻璃、舱盖、灯、天窗/顶窗、座舱仪表组、面板显示和仪表
- 电子产品：平视显示器、GPS导航设备和系统、LED照明



汽车和交通工具部件





Promoting Visual Clarity & Personal Safety

产品特性

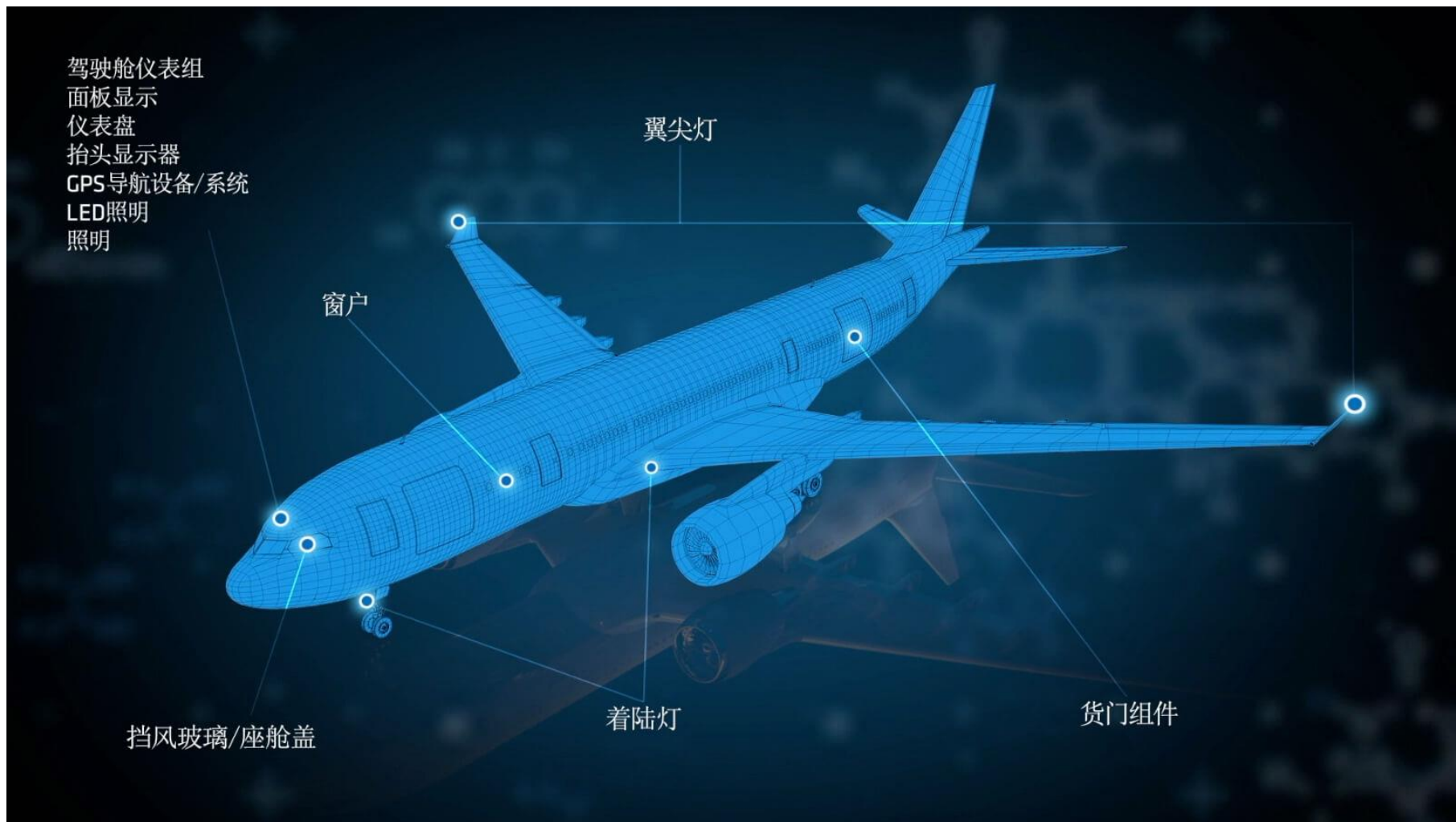
- 可水洗硬化涂料和膜
- Anti-Fog, abrasion, scratch, chemical, impact & UV resistance
- 出色的光学透明度、更加安全驾驶和导航
- 优质耐候性和户外耐久性
- Tintable, compatible with adhesives & AR coatings
- Improves safety, encapsulating & reducing occurrence of shattering glass

应用

- 航空：窗户、挡风玻璃、座舱盖、照明、驾驶舱仪表盘、显示面板和仪表
- 电子产品：平视显示器、GPS导航设备和系统、LED照明
- 防护眼镜：护目镜、面罩、头盔和航天头盔



航空航天部件件





Convenience & Safety in Grooming routines



产品特性

- Water-washable hard coatings & coated films in 2 and 4 mil thickness
- Available with or without pressure sensitive application to flat glass and polycarbonate surfaces
- Anti-Fog, abrasion, scratch, chemical, impact & UV resistance
- Exceptional optical clarity enables safer grooming routines

产品优势

- Chemical resistant, can be cleaned with common household glass cleaners
- Permanent anti-fog treatment, a superior solution to temporary sprays and gels



应用

- Residential and commercial bathroom shaving, vanity and powder mirrors
- Shower and steam room doors, saunas, and windows



用于冰箱、冰柜和冰箱展示柜门的防雾膜

产品特性



- 出色的可水洗防雾、耐磨、耐刮、耐污渍和耐紫外线特性
- 高效和持久的凝结控制
- 即使在潮湿条件下也耐用
- 可表面印刷、可进行数字印刷以推广
- Highly durable, abrasion, scratch, mar, chemical & UV resistance



产品优势

- 易于安装、可使用家用清洁剂维护
- 光学清晰、改善视觉营销
- 支持环境领导和可持续性计划
 - 优化效率、减少冰箱/压缩机的能耗



Maximizing the Durability & Performance of a Digital Lifestyle

产品特性



- Anti-Fog, abrasion, scratch, chemical, impact & mar resistance
- Excellent weatherability, outdoor durability & UV protection
- 出色的光学清晰度, extremely hydrophilic & hydrophobic for 100% visibility
- Printable film surface for branding & advertising
- Tintable, easy to clean & highly durable wear resistance
- PET Film compatible with adhesives



Coated Film Applications

- Cameras, GPS systems, smart phones, watches
- Computers, PCs, PDAs, notebooks, tablets
- 数字户外广告招牌和报摊
- Electronic control panels, appliances & handled devices
- HUD, Flat Panel Display (FPD), LED, LCD (plasma screens), OLED
- TV显示器和触摸屏





Anti-fog Coated Film Improves Plant Quality & Growth

产品特性



- Condensation can lead to plant damage, disease, scorching and reduced light transmission in a greenhouse or conservatory.
- Anti-fog coated film supports a healthier, more productive growing environment for plants
- Non-yellowing, optically clear, anti-fog controls condensation
- Provides superior water sheeting surface on greenhouses and conservatories
- Helps to control light transmission to enhance growth conditions
- Hydrophilic with anti-fog additives, enables water to migrate from the surface so water sheets off it, removing all traces of fog.



产品优势

- Condensation control helps nurture plant growth:
 - 15-50% more light transmission
 - Higher crop yields, quality, and commercial value
 - Earlier harvesting
 - Fewer diseases and reduced need for pesticides



Improving Visibility & Durability

产品特性

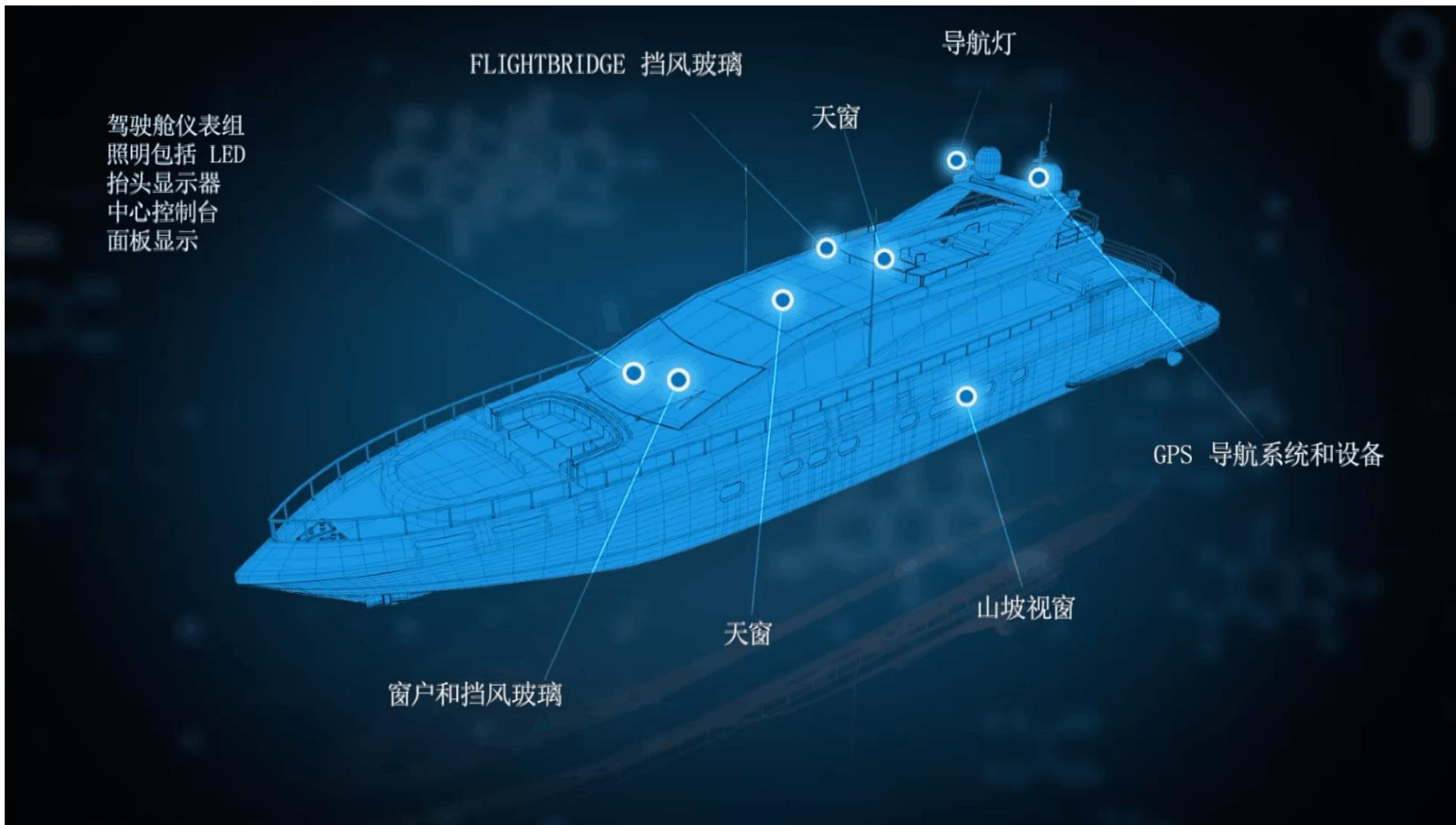
- 出色的光学透明度、更加安全驾驶和导航
- 优质耐候性和户外耐久性
- Excellent resistance to abrasion, chemicals, impact and UV radiation
- 亲水性分散水汽的防雾特性
- 无需使用底涂即可附着在聚碳酸酯基材上
- T可染色和可打印表面

应用

- 电子产品: 面板和前窗玻璃投影 (HUD)、LED 照明
- 船体侧面和船甲板窗、挡风玻璃和风挡
- 导航: GPS 导航系统、驾驶舱仪表盘和仪表



船舶船只部件





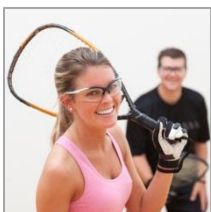
Permanent, Water-Washable Anti-Fog Solutions

产品特性

- Highly durable, abrasion, scratch, chemical, impact & UV resistance
- Permanent, water-washable Anti-Fog coatings & films
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Easy to clean, excellent wear resistance & outdoor durability
- Tintable, compatible with mirror & anti-reflective (AR) treatments
- Provides superior impact protection to bullet/shatter proof glass
- Improves safety, encapsulating & reducing occurrence of shattering glass
- Meets or exceeds safety standards for fog, abrasion & UV protection

应用

- 汽车及运输: Armored & security vehicle windshields, windows & doors
- Medical: Electronic display panels, surgical camera equipment, cardiovascular stints & vascular implant devices
- 防护眼镜: 例如面罩、面具、护目镜、头盔





需要视觉透明度的应用

产品特性

- Highly durable, abrasion, scratch, chemical, impact, mar & UV resistance
- Permanent, water-washable Anti-Fog coatings & films
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Easy to clean, excellent wear resistance & outdoor durability
- Tintable, compatible with mirror & AR treatments
- Provides superior impact protection to bullet/shatter proof glass
- Improves safety, encapsulating & reducing occurrence of shattering glass
- Meets or exceeds safety standards for fog, abrasion & UV protection



应用

- 防护眼镜：例如面罩、面具、护目镜、头盔
- 光学设备：例如双筒望远镜、步枪瞄准镜、夜视镜、激光瞄准镜和监控摄像头
- A飞机座舱盖、机舱窗户、驾驶舱和仪表盘
- 汽车及运输：军用坦克和安全车窗户、挡风玻璃、仪表和导向系统



Superior Anti-Fog Performance

产品特性

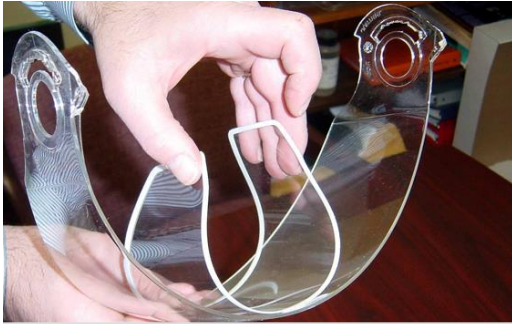


- Highly durable, abrasion, scratch, chemical, impact, mar & UV resistance
- Permanent, water-washable Anti-Fog coatings & films
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Easy to clean, excellent wear resistance & outdoor durability
- Tintable, compatible with anti-reflective, mirror & metalizing treatments
- Meets or exceeds safety standards for fog, abrasion & UV protection

应用



- For Application to tinted and clear substrates
 - Polycarbonate, polyamide (optical nylon), cast resins & acrylic
- Ophthalmic Lens Prescription Eyewear
- 太阳眼镜 及运动眼镜 (shields, masks, goggles, visors)



Simple to Complex Design & Production Assistance

- Support team to assist with initial production and design
- Expert sciences review requirements for the best product fit
- Ability to develop customized coating formulations
- Contract manufacturing services available for:
 - Appliqué shapes & perimeter adhesion
 - Custom die-cut lenses
 - Specialized laminations & metalized tinted films



產品

Anti-Fog Coatings, Film & Sheet, Formable, Specialty





Product Solutions to Improve “YOUR” Brand

- Anti-Fog Product Suite
- Anti-Fog Film & Sheet Product Suite
- Anti-Fog PET Film Products
- Formable Coatings Product Suite
- 特种及客户定制应用
- 形成可能製品群



创新的产品解决方案



- 防雾
- Highly Abrasion & Scratch Resistant
- Chemical & Impact Resistant
- 与防反光(A/R)处理具兼容性
- 常温下稳定
- 柔性
- 亲水的 和防撞击
- 光学透明
- 热固化和 UV 固化
- 可染色
- 防水



Enhanced Product Performance & Quality

- 易于使用，不需要预混合，可用于PC免底涂涂覆
- Improves product performance, utility, appearance & quality
- Primer-free product offerings accelerate production
- Environmentally friendly options available
- 使用方便和产品稳定性高, can be stored at room temperatures
- 产品的服务寿命经济合算，降低了频繁换槽导致的浪费
- Multi-substrate compatible coatings streamline manufacturing, improving yields and profitability
- FSICT 的全球技术支持团队可帮助您解决所有的产品验证和应用需求



Multiple Applications



- 亚克力
- 铝和其他有色金属
- 玻璃
- PET 薄片和片块
- 聚酰胺 (光学尼龙)
- 聚碳酸酯及其他塑料





Multiple Coating Applications



- 铸造件
- Fabricated Plastics, Metal & Glass
- Forged & Non-Ferrous Metals
- 注塑成型件
- Plastic Film & Sheet



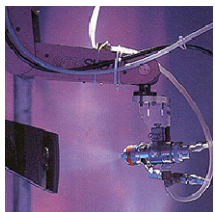
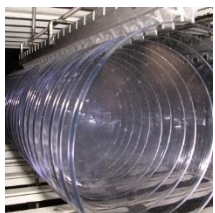


Multiple Product Options



- 防雾 可水洗
- 疏水
- Hard Coating
- 多用途
- 免底涂
- 热固化和 UV 固化





- 浸涂
 - 双面加硬具备高产能和维持厚度控制的能力
 - 适合镜片和小部件
- 流涂
 - 适合较大或具有独特外形的部件
 - 非常适合塑料板材和较大尺寸材料
- 层流
- 滚动涂布
 - 单面涂布、适合紫外线固化涂料
 - 用于膜和板材的理想连续涂布
- 自粘薄膜
- 旋涂
 - 单面涂布、具有良好的厚度控制
 - 非常适合镜片
- 喷涂
 - 单面涂布、适合大型或复杂部件、具有高产能的特点
 - 应用包括手机屏幕和外壳



World-Class Anti-Fog Coatings

应用

- Safety/Military/Sports/Sunglass Eyewear & Swim Goggles
- Industrial Sheet & PET Film for Freezers
- Instrument Gauges/Panels/Clusters

产品特性

- Single and double coat systems
- Primer, primer-free & water-based options
- 热成型和柔软
- Anti-fog (permanent), abrasion, impact & chemical resistant
- Compatibility with mirror coating treatments (AF-6114)
- Dip, flow, roll & spray coat compatible
- Thermal & UV-cure options

Anti-Fog Product Options

- Polysiloxane
 - Non-Water washable & water-washable
- Urethane
 - Permanent water-washable, EN-166/EN-168 compliant
 - 疏水和亲水的
 - Superior water-sheeting properties





Commercial, Industrial & Medical Applications



服务市场

- 建筑和建筑物 (Conservatory/Greenhouse, Mirrors)
- 汽车及运输 (Aerospace, Bus/Coach, Marine, Motorcycle, Rail)
- 防护和安全眼镜：头盔、面具、面罩和护目镜
- 电子产品 (HUD, LED, Digital Billboard Displays)
- 军事及国安

产品特性

- Film Applications: Glass, PET Film & Sheet, PC
- Anti-fog, abrasion, impact and chemical resistant
- Excellent formability

可选涂覆方案

- Permanent anti-fog coated film with or without pressure sensitive adhesive
- Anti-fog film for single-use, disposable products
- Standard rolls & customized appliqués



Commercial & Industrial 应用



服务市场

- Architectural Glazing
- Bathroom & Shower Mirrors
- Commercial Freezer & Delhi Display Cases
- Industrial Safety & Sports Visors, Eyewear & Masks
- Instrumental Crystal & Display Lenses

产品特性

- Film Applications: Glass, PET Film & Sheet, PC
- Permanent anti-fog with superior abrasion resistance
- Exceptional optical clarity & consistency

可选涂覆方案

- Permanent anti-fog coated film with or without pressure sensitive adhesive
- Anti-fog film for single-use, disposable products
- Standard rolls & customized appliqués



优异的耐磨性和光学清晰度



服务市场

- 汽车及运输
- 建筑和建筑物
- 电子产品
- Protective Eyewear



产品特性

- Outstanding Abrasion, Scratch & Chemical Resistance
- Formable, Flexible & Tintable
- Optically Clear, Permanent Anti-Fog Performance
- Will Not Discolor with Exposure to Sunlight
- Adhesion to PC, PMMA, CR-39®, Nylon & Other Plastics



可选涂覆方案

- 热固化
- Single & Double Coat Systems
- Flow & Dip Coat Compatible



Performance Powered by Sustainable Chemistry

服务市场



- Ophthalmic Eyewear
- 防护眼镜：例如面罩、面具、护目镜、头盔

产品特性

- Outstanding Abrasion, Chemical, Fog, and UV Resistance
- 出色的光学透明度
- Water washable and water sheeting
- Primer-free adhesion to polycarbonate



产品优势

- Excellent stability and product durability, extended anti-fog service-life performance
- Eco-friendly, reduced VOC emissions
- Environmentally conscious UV light, energy efficient fast curing
- Good cosmetic appearance, transparent anti-fog, hydrophilic easy clean surface

摘要



战略发展合作伙伴

- 您的战略发展合作伙伴，专注于持续品质改进
- 致力于世界级运营和全球客户关系
- 致力于提供不折不扣的服务，超越客户预期
- 以中央研发部门为后盾的本地化技术支持团队加速产品**开发**



Why Choose FSICT?

- Long and successful record of continuous growth through technical innovation
- Comprehensive portfolio of patented premium anti-fog coatings and films for multiple applications
- FSICT's innovative solutions improve the durability and performance of the world's most recognized products
- Extensive support and distribution network



Enhancing Product Durability



- Trusted by the World's Most Prestigious Brands
- From the 2012 Olympic Games swim goggles, to NASA Space Mission helmets, our premium coatings are used to enhance products where high performance is critical.
 - Best-in-class abrasion, chemical, fog, impact and scratch resistance
 - Exceptional optical clarity and environmental durability
- Global Manufacturing Capacity
 - Closely aligned to our global customers to deliver product, service, and support 24x7



What We Can Do Together is Boundless



Innovative Product Solutions

- Enhance your products' performance and image
- Leverage FSI's proprietary, patented technology
- Rely on consistent, certified products
- Access global JIT delivery and support
- Support partnership for your product:
 - Evaluation
 - Qualification
 - Implementation
 - Commercialization
 - Future development strategies

fsi

Coating Technologies

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36 年产品创新

Global Leader in Anti-Fog Coating Systems