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Innovate Material Future



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电机行业涂装

Electric Machinery Industry Coating

全方位解决方案

Comprehensive Solution



浩力森科技发展（上海）有限公司

浩力森（上海）新材料科技有限公司

浩力森涂料（上海）有限公司

浩力森化学科技（江苏）有限公司

HLS Technology Development (Shanghai) Co.,Ltd

HLS (Shanghai) New Material Technology Co.,Ltd

HLS Coatings (Shanghai) Co.,Ltd

HLS Chemical Technology (Jiangsu) Co.,Ltd



环保低污，符合各项国际标准

Environmental Protection Low Pollution, Met The International Standard

随着环保政策的推行，各大电机制造企业纷纷舍弃原有高VOCs排放的油性喷漆采用更加环保的水性喷漆。

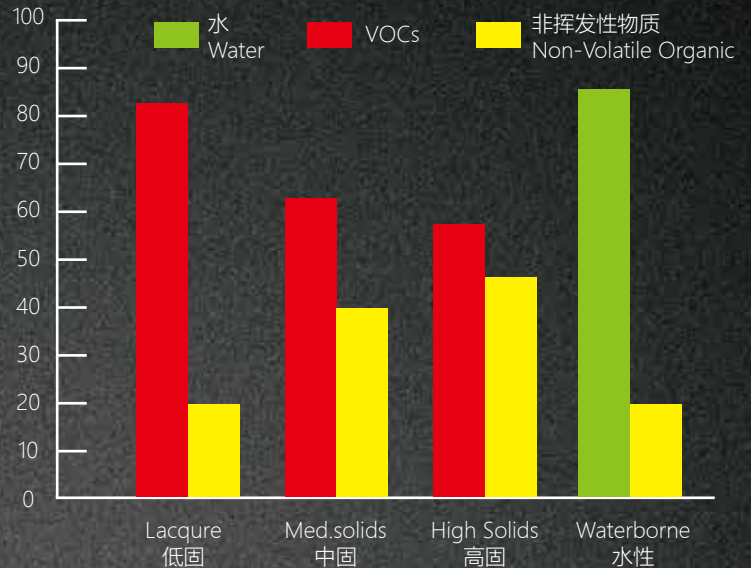
HLS的所有水性工业涂料产品均符合欧洲RoHS、REACH、PAHs的各项指令要求。应用于生活的工业涂料还取得了美国FDA食品药品监督管理局的认证。

水性工业涂料是传统油漆升级换代产品，以水作为稀释剂，无毒无味、健康环保、节约能源，属节能环保新材料，是涂装行业未来发展趋势。而水性工业涂料不含有害致癌物质，无毒无味，不燃不爆。对于长期处于喷漆环境中工作的人员大幅度的降低身心健康的伤害。对企业的工作环境和员工职业健康安全有质的提升。

With the implementation of environmental protection policies, major motor pump manufacturers have abandoned the original high VOCs emissions of solvent spray paint, using more environmentally friendly water-based spray paint.

All of HLS's products comply with the European RoHS, REACH, PAHs directive requirements. The waterborne industrial coatings for domestic use have also been certified by the us food and drug administration of FDA .

Water-based industrial coating is the upgrading product of traditional paint, with water as diluent, non-toxic and odorless, healthy and environmental protection, energy saving, is a new material of energy conservation and environmental protection, is the future development trend of coating industry. And water - based industrial coating does not contain harmful carcinogenic substances, non - toxic tasteless, non - combustible and non - explosive. For a long time in the spray paint environment to reduce the harm of physical and mental health significantly to Construction personnel , in essence to ensure the enterprise's working environment and employee occupational health and safety.



水性涂料、油性涂料VOCs排放对比图

Table of VOCs discharge comparison of waterborne coatings and oil-based coatings



性能优异，满足C1-C5环境要求

Excellent Performance, Meet The Environment Requirements Of C1-C5

众所周知，电机在组装完成后，需要对电机的表面进行喷漆工序，以提高电机表面的质量和美观程度。由于电机通常被应用于新兴海洋工程、高铁及现代交通运输、能源工业、化工矿业、市政工程、供水系统、污水处理等严苛环境，所以在不同环境下对于电机的防腐性能有着不同的要求。

HLS根据顾客产品使用环境的不同，为顾客提供定制化的涂装解决方案，在满足涂膜质量的同时，有效控制成本。

As is known to all, after the completion of electric machinery assembly, the electric machinery surface needs to be painted to improve the quality and appearance of the electric machinery surface. Electric machinery is usually used in emerging Marine engineering, high-speed railway, modern transportation, energy industry, chemical & mining industry, municipal engineering, water supply system, sewage treatment and other harsh environment, so in different environments for electric machinery anti-corrosion performance has different requirements.

HLS provides customers with customized coating solutions according to the different application environments of customers' products, so as to effectively control the cost while satisfying the coating quality.



C1-C3环境解决方案

C1-C3 Environment Solution

双组分环氧底漆 + 双组分水性聚氨酯面漆
Two-component epoxy primer + two-component
water-based polyurethane topcoat

C1-C3涂膜性能主要参数

Main parameters of C1-C3 coating performance

序号 NO.	测评项目 Evaluation project	检测结果 Test results	检验标准 Test standard
1	耐酸 Acid resistance(50g/L H ₂ SO ₄)	24h	GB/T 1763
	耐碱 Alkali resistance(50g/L NaOH)		
2	冷凝水测试 Condensate water	120h	ISO 12944-6:1998 C3 Medium & ISO 6270-1:1998
3	耐盐雾试验 Resistant to neutral salt spray	240h	ISO 12944-6:1998 C3 Medium & ISO 9227:2017
4	耐候性 Weather resistance	480h	ISO16474-3:2013

C4-C5环境解决方案

C4-C5 Environment Solution

双组分环氧富锌底漆 + 双组分水性云铁中间漆 + 双组分水性聚氨酯面漆
Two-component epoxy zinc-rich primer + two-component
water-based iron oxide intermediate paint + two-component
water-based polyurethane topcoat

C4-C5涂膜性能主要参数

Main parameters of C4-C5 coating performance

序号 NO.	测评项目 Evaluation project	检测结果 Test results	检验标准 Test standard
1	耐酸 Acid resistance(50g/L H ₂ SO ₄)	24h	GB/T 1763
	耐碱 Alkali resistance(50g/L NaOH)		
2	冷凝水测试 Condensate water	480h	ISO 12944-6:1998 C4/C5 & ISO 6270-1:1998
3	耐盐雾试验 Resistant to neutral salt spray	C4 480h	ISO 12944-6:1988 C4 & ISO 9227:2017
		C5 720h	ISO 12944-6:1988 C5 & ISO 9227:2017
4	耐候性 Weather resistance	1000h	ISO16474-3:2013
5	耐润滑油 Machine oil	168h	GB/T 9274-1998

施工便利 节省成本

Convenient Construction, Save Cost

HLS产品施工性能优异，
不仅适用于水性喷漆线，在现有油性喷漆线上亦可正常使用，
为顾客节省设备整改的相关费用。

HLS products have excellent construction performance,
which is not only suitable for water-based painting lines, but also can be
normally used on existing solvent-based painting lines, effectively reducing
the relevant costs of equipment rectification for customers.

HLS服务顾客

Customer Service

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