



公司总体外貌



产品展厅

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公司介绍

欣烨机电（天津）有限公司成立于2000年（世烨机电公司成立于2011年），韩国独资企业，拥有员工150人，投资总额6000万人民币。占地面积15000平方米，建筑面积7000平方米。有3条现代化自动喷涂生产线，机械加工及橡胶硫化加工设备，韩国产电泳涂装全自动生产设备一套。公司分别加入了质量体系ISO9001:2015、环境管理体系ISO14001:2015、职业健康安全认证ISO45001:2018、能源认证ISO50001:2018体系认证。

产品与销售

主要生产微波炉专用烧烤盘系列产品和汽车配件产品，共有60余种，属国家专利产品。主要客户有LG电子，大宇微波炉，三星电子、美的微波电器制造有限公司，广东美的厨房电器制造有限公司、杭州老板电器股份有限公司、格兰仕微波电器有限公司及漳州灿坤实业有限公司、武清万都、奥帕等汽车配件公司纳品同时还出口远销到韩国、日本、美国、欧洲等国家。年销售额8000万人民币。



- 2000. 11 欣烨机电（天津）有限公司成立
- 2000. 11 天津LG电子供应商登录
- 2006. 06 美的微波炉和台湾灿坤公司供应商登录
- 2007. 05 韩国LG电子供应商登录
- 2008. 09 格兰仕微波炉供应商登录
- 2009. 01 三星电子微波炉供应商登录
- 2010. 08 ISO9001质量体系加入
- 2011. 03 世烨机电公司成立
- 2013. 02 天津大宇微波炉供应商登录
- 2018. 11 通过美国惠而浦供应商国际认证（Whirlpool）
- 2019. 05 老板电器供应商登录
- 2021. 02 ISO14001/ISO45001体系加入
- 2023. 06 能源认证体系ISO50001:2018



特氟龙喷涂产品



正面圈胶



正面



正面



反面底胶



反面底胶



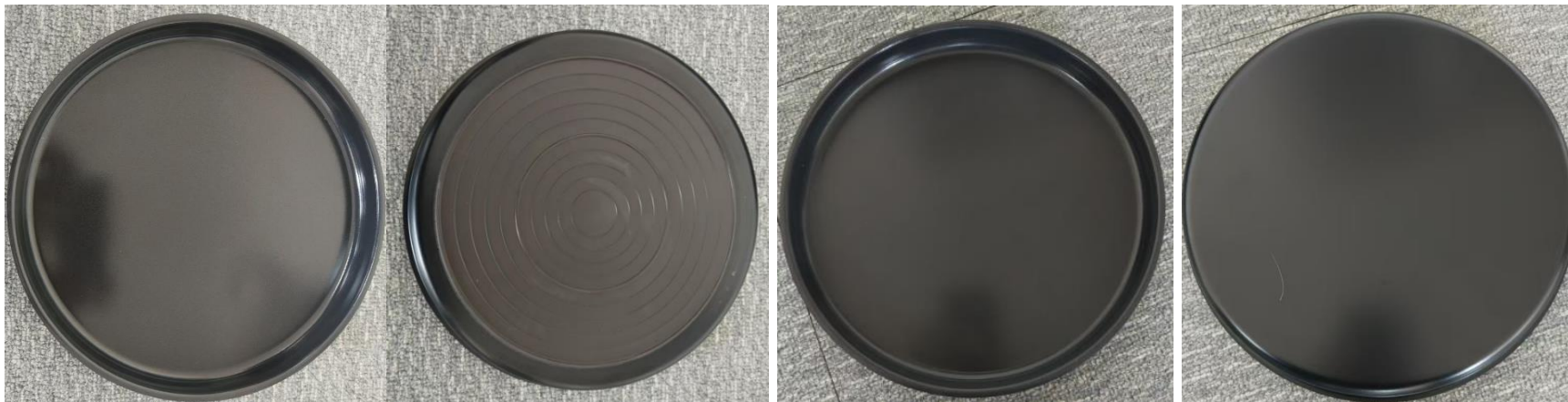
反面底胶

特氟龙喷涂产品性能

特氟龙涂层的优点包括：

- 1. 优异的耐高温性能：**特氟龙涂层具有极高的熔点，一般在300℃以上，最高可达400℃。这使得特氟龙涂层在高温环境下仍然保持良好的稳定性和耐磨性能。
- 2. 良好的耐腐蚀性能：**特氟龙涂层对大多数化学物质具有很好的耐腐蚀性，包括酸、碱、盐、有机溶剂等。这一特性使得特氟龙涂层在厨具等领域具有广泛的应用前景。
- 3. 优异的耐磨损性能：**特氟龙涂层表面光滑且摩擦系数较低，因此具有很好的耐磨损性能。
- 4. 良好的电气绝缘性能：**特氟龙涂层具有较高的介电常数，使其具有良好的电气绝缘性能。这一特性使得特氟龙涂层在微波炉打火上等领域具有广泛的应用。
- 5. 可塑性强：**特氟龙涂层可以通过喷涂等方法进行加工，成型性好，可根据需要定制各种形状和尺寸的产品。
- 6. 环保无毒：**特氟龙涂层不含有害物质，对人体和环境无害。符合国际环保标准，可以放心使用。

陶瓷喷涂产品



正面陶瓷漆

反面底胶

正面陶瓷漆

反面无胶

陶瓷喷涂优点:

1. **良好的结合强度:** 可以在基材表面形成结合强度达到50MPa以上的致密陶瓷涂层
2. **硬度高:** 陶瓷材料硬度高, 能达到9H以上, 相当于钢铁的硬度, 可有效抵抗刮擦和磨损。
3. **耐腐蚀性好:** 能够抵抗各种酸、碱、盐等化学物质的侵蚀。
4. **耐高温性好:** 可以承受高温环境下的各种热应力和热冲击
5. **涂层均匀:** 采用高科技的喷涂设备和工艺, 能将陶瓷材料均匀地喷涂在基材表面上, 从而保证涂层的厚度和质量
6. **环保健康:** 材料和工艺都非常环保健康, 不含有害物质, 不会对环境 and 人体造成危害。
7. **适应恶劣环境:** 具有耐高温、高强度、超硬度、耐磨、耐腐蚀等性能, 能承受金属材料 and 高分子材料不适用的恶劣工作环境。能承受高温火焰长期喷烤, 再加上防腐抗氧化性能好, 硬度高, 能适应高温炉膛金属腐蚀问题
8. **陶瓷涂层性能多样:** 陶瓷涂层具有耐磨、耐蚀、防粘、高硬度、耐高温、生物相容性好等特点

搪瓷喷涂产品



正面搪瓷



正面搪瓷

搪瓷的优点主要包括：

1. **耐腐蚀性：**搪瓷具有极强的耐腐蚀性，能够抵御酸、碱等化学物质的侵蚀
2. **耐热性：**搪瓷能够承受高温，不易熔化或变形，热传导性能良好，能够均匀分布热量。
3. **卫生易清洁：**搪瓷表面光滑平整，不易附着污垢和细菌，抗菌性能使其成为卫生设备的理想选择²。
4. **耐磨性：**搪瓷具有出色的耐磨性，不易刮花或磨损，能够保持良好的外观和质量²。
5. **美观耐用：**搪瓷具有独特的光泽和色彩，能够为产品增添美感，颜色不易褪色，即使长时间使用也能保持鲜艳的外观。
6. **抗霉菌和抗氧化特性：**搪瓷在户外环境中也能保持良好的耐用性。
7. **结合强度高：**搪瓷与金属之间的结合强度较高，不易脱落。
8. **抗腐蚀性能好：**搪瓷表面光滑、致密，不易被腐蚀，金属基体起到牺牲阳极的作用，保护内部金属不被腐蚀。
9. **热传导性能好：**搪瓷材料的热传导性能优于传统陶瓷材料，在热交换器、热水器等应用中表现出色。
10. **可塑性高：**搪瓷材料可以通过不同的加工方法制成各种形状和尺寸的制品。

搪瓷和陶瓷在定义、特性、应用性等方面存在区别。

1. 定义不同

陶瓷是指陶器和瓷器，一般都是使用陶土或者是瓷土为原材料，然后在高温下经过混炼、成形、煅烧等步骤制作而成的，而搪瓷是指涂烧在金属底坯表面上的无机玻璃瓷釉，是一种钢化玻璃材料，是将金属铁片经过涂层和高温烧制后，再在表面涂上一层玻璃釉料而成。

2. 特性不同

陶瓷在高温环境下，一般不容易出现氧化现象，对于酸、碱、盐等物质都具有很好的抗腐蚀能力。由于陶瓷的原材料是粘土，所以陶瓷的导热性会比搪瓷更差一些，一旦被硬物撞击的话，还容易出现破裂现象。而搪瓷表面所涂烧的无机玻璃瓷釉可以避免金属底坯出现生锈现象，并且在受热时帮助金属底坯抵抗各种液体的侵蚀。由于搪瓷的原材料是金属，所以搪瓷的导热性会比陶瓷好很多，并且也不会因为硬物的撞击而出现破裂现象，一般只会出现表面的瓷釉脱落的现象。

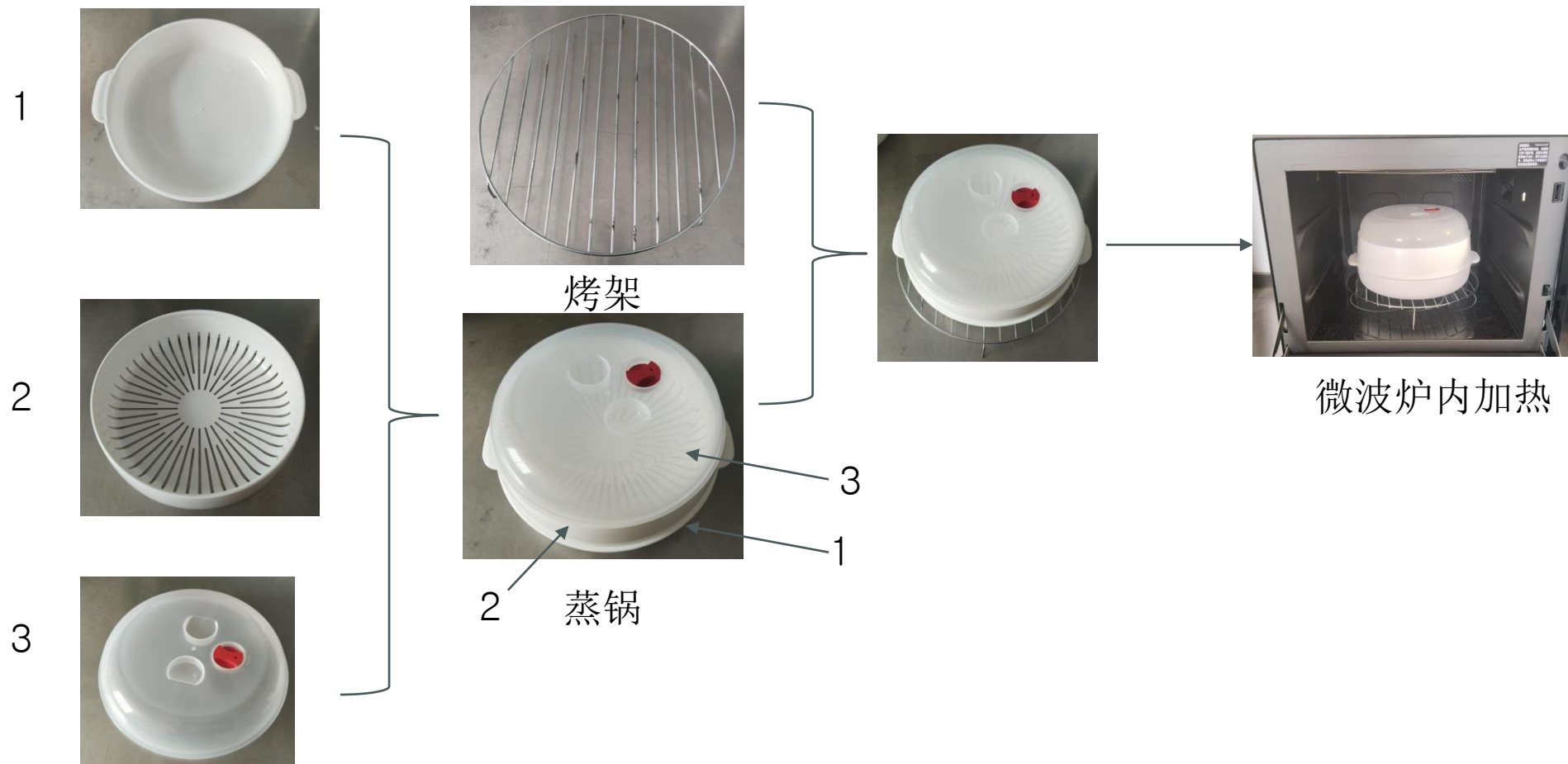
3. 应用性不同

陶瓷一般被制作成厨房餐具，例如：盘子、调羹、碗、名贵的青花瓷瓶、茶具等等，而搪瓷一般被制作成可以盛放物品或者是液体的器皿、厨房用具。

烤盘系列组装图



蒸锅系列组装图

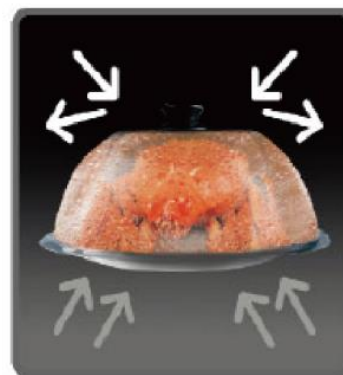




主要特点 | Main Features

工作原理 | Working Principle

美食菜单 Gourmet Menu



微波炉用不锈钢锅盖隔断,通过万能锅底部硅胶集中吸收微波炉使锅内水加热,用蒸汽料理食物;去除锅盖及蒸屉,可利用万能锅进行煎炸料理,实现真正明火烹调,既保证食物水分丰富,又保证其营养价值。









Test Report

No.: TSNEC24002738205 Date: Nov 01, 2024 Page 1 of 4

Client Name: SHINE MECHATRONICS (TIANJIN) CO.,LTD
Client Address: TAIYUAN ROAD, SHANGMATAI INDUSTRIAL ZONE, WUQING DISTRICT, TIANJIN

Sample Name: CERAMIC TRAY
The above sample(s) and information were provided by the client.

SGS Job No.: TJP24-006213
Sample Receiving Date: Oct 24, 2024
Testing Period: Oct 24, 2024 ~ Nov 01, 2024
Test Requested: Select test(s) as requested by the client.
Test Method(s): Please refer to next page(s).
Test Result(s): Please refer to next page(s).

Test Requirement	Comment
1 US FDA 21 CFR 175.300 - Total Extractives	Pass
2 US FDA CPG Sec.545.400 and CPG Sec 545.450 - Leachable Lead and Cadmium	Pass



Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.

Patrick Kou
Approved Signatory



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Member of the SGS Group (SGS SA)

Test Report

No.: 70.431.24.13844.01
Date: 2024-06-19



Applicant: SHINE MECHATRONICS (TIANJIN) CO., LTD
Address: TAIYUAN ROAD, SHANGMATAI INDUSTRIAL ZONE, WUQING DISTRICT, TIANJIN
Manufacturer: SHINE MECHATRONICS (TIANJIN) CO., LTD
Product Name: Ceramic Tray
Receipt Date of Sample: 2024-05-27
Date of Testing: 2024-05-27 ~ 2024-06-19
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation - Sensory Test	Pass
2. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Overall Migration	Pass
3. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Extractable Phenolic Substances	Pass
4. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Specific Migration of Bisphenol A	Pass
5. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Specific Migration of Primary Aromatic Amine (29)	Pass
6. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Specific Migration of Primary Aromatic Amine	Pass
7. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Specific migration of formaldehyde	Pass
8. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Specific migration of PFOS	Pass
9. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Extractable Cr(III), Cr(VI) & Li	Pass
10. Germany - German Food & Feed Acts LFGB Section 30 and Guideline of the EDQM Technical Document on metal and alloys -Extractable Heavy Metals	Pass
11. Germany - German Food & Feed Acts LFGB Section 30 and BfR Recommendation, DIN 51032:2017 - Extractable Lead and Cadmium for internal	Pass
12. Germany - ALS Opinion Number 2017/15 - Extractable cobalt	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%

Laboratory:
TUV SUD Certification and Testing (China) Co., Ltd.
Shanghai Branch, Testing Center
Building B.C. No. 199 and Building D. No. 2059,
Duhui Road, Minhang District, Shanghai

Phone: +86 21 60376300
Fax: +86 21 60376306
<https://www.tuv.sud.com>

Regd. Office:
TUV SUD Certification and Testing (China) Co., Ltd.
Shanghai Branch, TUV SUD Group
Floor 11-12, No. 151, Hongfeng Road, Jing'an District, Shanghai

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Test Report

No.: 70.431.24.13060.01
Date: 2024-05-31



Applicant: SHINE MECHATRONICS (TIANJIN) CO.,LTD
Address: TAIYUAN ROAD, SHANGMATAI INDUSTRIAL ZONE, WUQING DISTRICT, TIANJIN
Product Name: Tray
Manufacturer: SHINE MECHATRONICS (TIANJIN) CO.,LTD
Receipt Date of Sample: 2024-05-07
Date of Testing: 2024-05-07 ~ 2024-05-31
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
2. Screening of 240 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)	<0.1%(WW)
Screening of 2 Substances of Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No 1907/2006 concerning the REACH	

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%

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FAD检测

LFGB检测

REACH检测



冲压设备



清洗机



自动特氟龙喷涂



自动烘干机



自动喷涂机



半自动硫化机



自动硫化设备



自动硫化设备



自动陶瓷喷涂



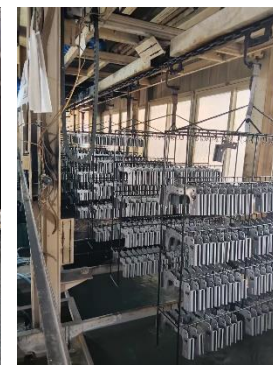
电泳外链条



药品药水槽



清洗槽



产品待电泳



涂膜测厚仪



百格仪



ROHS检测仪器



水煮试验机



盐雾试验机



恒温恒湿机



铅笔试验仪



电子天平



高度仪



跌落试验



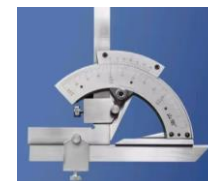
配比试验



光源箱



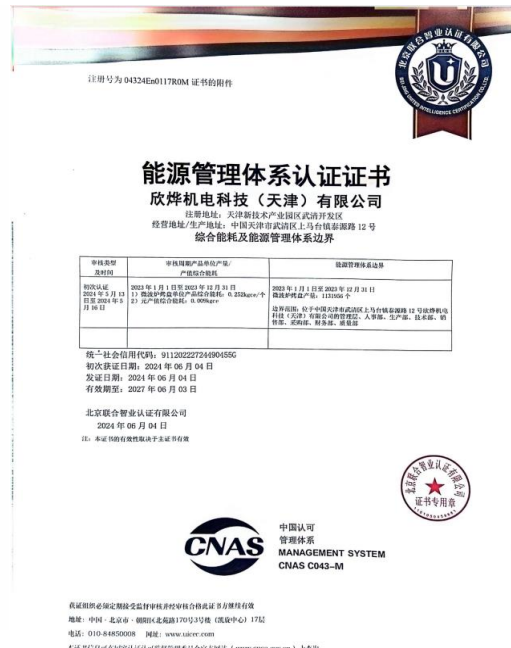
数显卡尺



角度尺



IS09001:2015
质量管理体系



IS050001:2018
能源管理体系



IS045001:2018
职业健康安全体系



IS0114001:2018
环境管理体系