



食品接触材料 和制品测试服务

Food Contact Materials and Articles Testing Services



关于广东标检

About STC (Guangdong)

广东省标检产品检测认证有限公司 (广东标检) 于 2005 年成立, 是由 STC 投资, 经中华人民共和国海关总署 (GACC) 批准设立的独立、第三方产品测试、检验及认证机构。经过多年发展, 现确立了在华南地区检测业的较领先地位, 并获得了广泛的国际认可, 包括 CMA, CNAS, FCC, CPSC, Govmark, IC, LUCIDEON, SATRA, DAkkS 等。

广东标检化学、食品和药物部推出针对食品接触材料的检测服务, 公司拥有先进的设备和专业的团队, 确保您的产品符合国家相关技术和安全要求。

Established in 2005, and invested in by STC, STC (Guangdong) is approved by the General Administration of Customs of the People's Republic of China (GACC) in its establishment as an independent third-party organization in the field of product testing, inspection and certification. STC (Guangdong) has kept on expanding and we are proud to be one of the industry's leaders in Southern China. STC (Guangdong) has obtained a wide range of international accreditations including CMA, CNAS, FCC, CPSC, Govmark, IC, LUCIDEON, SATRA and DAkkS etc.

The Chemical, Food and Pharmaceutical Products Division in STC (Guangdong) offers professional testing services for Food contact materials, testing against the highest quality processes and standards to handle the ever-changing import regulations set by different countries.



食品接触材料和制品介绍

Food Contact Materials and Articles

食品接触材料和制品是指所有与食品直接或间接接触的材料及物品。食品接触材料的生产、销售和使用的质量安全备受全球关注。

Food contact materials and articles mean any materials and articles intended to come into contact directly or indirectly with food. The quality and safety of their manufacture, sales and use are scrutinized by the whole world.

▶ 食品接触制品包括:

Food Contact Articles Including:

- **餐 / 厨具:** 杯、碗、碟、盘、汤匙、筷子、刀叉、菜板、菜刀等
- **炊具:** 锅、盆、壶、煲等
- **厨房家电:** 电饭锅、电水壶、榨汁机、搅拌机、咖啡机等
- **婴幼儿喂养器具:** 奶瓶、安抚奶嘴、儿童餐具等
- **一次性餐具**
- **食品生产加工器具:** 食品传送带、灭菌容器, 加料管等
- **食品包装**
- **Tableware / Kitchenware:** cup, bowl, dish, plate, spoon, chopsticks, knife and fork, cutting board, kitchen knife, etc.
- **Cookware:** pan, basin, kettle, pot, etc.
- **Kitchen Appliances:** rice cooker, electric kette, juicer, blender, coffee machine, etc.
- **Infant Feeding Equipment:** bottles, pacifiers, children's tableware, etc.
- **Disposable Tableware**
- **Food Production and Processing Equipment:** food conveyor belt, sterilization containers, feeding tubes, etc.
- **Food Packaging**

▶ 食品接触材料包括:

Food Contact Materials Including:

- 塑料、树脂
- 橡胶、硅胶
- 金属、合金
- 纸张、纸板
- 陶瓷、玻璃、搪瓷
- 着色剂、印刷油墨等
- Plastic, Resin
- Rubber, Silicone
- Metal, Alloy
- Paper, Paperboard
- Ceramic, Glass, Enamel
- Colorants, Printing Inks etc.

食品接触材料及制品可能会在与食品接触的过程中影响食品的气味、味道以及颜色, 更可能会释放出一些有毒化学成分如重金属、有毒添加剂, 这些化学成分迁移到食品中而被人体摄入, 危害人类健康。

FCM carries potential risks of adverse effects on taste, odor and food colors, migration of hazardous substances (such as heavy metals and additives) into food, which endangers human health.

全球食品接触材料法规简介

Global Food Contact Material Regulation Summary

根据全球不同国家和地区制定的关于食品接触材料法律法规特点，全球食品接触材料安全要求大致分为以下三大区域：欧盟、美国、亚洲。

欧盟颁布的指令 EC No. 1935/2004 涵盖了 17 种材料，是欧盟关于食品接触材料和制品的基本框架法规。此外，欧盟一些成员国还颁布了当地的相关法规，如德国 LFGB-30, 31 & 33，法国 DGCCRF 2004-64，意大利 Gazzetta Ufficiale 30/04/1962 No.283，英国 UK SI 898: 2005 等。

此外，美国 FDA 也颁布了一系列食品接触材料管理法规，包括 U.S.FDA CFR 21 Part 175-189 和 FDA CPG 7117.05,06,07。

其他国家也颁布了相关的法规，如中国的国家标准 (GB)、日本食品卫生安全法 (JFSL) 等。

According to the characteristics of the regulations of the different countries and regions of food contact materials, global food contact materials safety requirements can be roughly divided into three major regions: Europe, America, Asia.

The EU has issued regulation EC No. 1935/2004, which covers 17 kinds of materials. It is the EU basic framework regulation for food contact materials and products. EU members have also issued their own laws and regulations for food contact materials. For example, Germany issued LFGB sections 30, 31 and 33; France issued the French DGCCRF 2004-64; Italy issued Gazzetta Ufficiale No.283 of 30/04/1962; Britain issued UK SI 898: 2005 and so on.

The United States Food and Drug Administration issued a series of requirements for food contact materials, including U.S.FDA CFR 21 Part 175-189 and FDA CPG 7117.05,06,07.

Other countries also have their own laws, for instance, GB standards in China, and the Food and Sanitation Law (JFSL) in Japan, etc.



中国对食品接触材料和制品的要求

Chinese Requirements for Food Contact Materials

测试标准 Regulation	产品类别 Testing Scope	测试标准 Regulation	产品类别 Testing Scope
GB 4806.2	奶嘴 Nipple	GB/T 3532	日用瓷器 Domestic Porcelain Ware
GB 4806.3	搪瓷制品 Enamel	GB/T 32432	家用钢制锅具 Household Steel POTS and Pans
		QB/T 2174	不锈钢厨具 Stainless Steel Kitchenware
GB 4806.4	陶瓷制品 Ceramic	GB/T 15067.2	不锈钢餐具 Stainless Steel Tableware
		GB/T 32388	铝及铝合金不粘锅 Aluminum and Aluminum Alloys Nonstick Cookware
GB 4806.5	玻璃制品 Glass	QB/T 4223	无油烟炒锅 Smokeless Wok
		GB/T 32095.1	金属烹饪器具不粘表面 Metal Cooking Utensils Non-Stick Surface
GB 4806.6	食品接触用塑料树脂 Food Contact Plastic Resin	GB/T 29601	不锈钢器皿 Stainless Steel Ware
		GB/T 40356	厨用刀具 Kitchen Knife
GB 4806.7	食品接触用塑料材料及制品 Food Contact Plastic Finished Articles	GB/T 30769	不锈钢水果刀 Stainless Steel Knife
		QB/T 1924	菜刀 Kitchen Knife
GB 4806.8	食品接触用纸和纸板材料及制品 Food Contact Paper & Paperboard	QB/T 1966	民用剪刀 Household Scissors
		QB/T 2141.1	日用小刀 Small Household Knife
GB 4806.9	食品接触用金属材料及制品 Food Contact Metal	GB/T 39232	日用陶瓷刀 Household Ceramic Knife
GB 4806.10	食品接触用涂料及涂层 Food Contact Coating	GB/T 29606	不锈钢真空杯 Stainless Steel Vacuum Flask
GB 4806.11	食品接触用橡胶材料及制品 Food Contact Rubber	QB/T 4856	不锈钢果蔬刨 Stainless Steel Fruit and Vegetable Paring Utensil
GB 4806.12	食品接触用竹木材料及制品 Food Contact Bamboo and Wood	GB/T 2485	固结磨具 Bonded Abrasive Tools

▶ 欧盟对食品接触材料和制品的要求 EU Requirements for Food Contact Materials

欧盟食品级框架法规 (EC) No.1935/2004
全称：在欧盟成员国销售与食品接触的产品必须符合该项法规的相关要求。

European Food Grade Framework Regulation (EC) No.1935/2004: products in contact with food sold in EU Member States must comply with the relevant requirements of this Regulation.

框架法规 (EC) No.1935/2004 对与食品接触类产品不同材料的要求及测试项目汇总：

Regulation (EC) No.1935/2004 for FG Product with Different Materials and Testing Capability:

物理测试 Physical Test

产品类别 Product Type	测试项目 Testing Items
陶瓷制品, 玻璃制品 Ceramic, Glass	<ul style="list-style-type: none"> • 热冲击测试 Thermal Shock Resistance (EN 1183, ASTM C149, ASTM C554) • 洗碗机测试 Dishwasher Test (EN 12875, ASTM C676 STC methodology) • 微波炉测试 Dishwasher Safe Test (EN 15284) • 撞击强度 Physical Impact Test (EN 12980, ASTM C368, LUCIDEON PT 32) • 陶瓷吸水率 Ceramic Water Absorption (EN 1217, ASTM C373, BS 5416) • 透明度测试 Translucency (EN 1184: 1997 Method A, BS 5416) • 抗细裂纹测试 Grazing Resistance (BS EN 13258: 2003 Method A) • 冰箱到烘箱温变测试 Resistance to Freezing (Freezing to Oven) (LUCIDEON PT36) • 冰箱到微波炉温变测试 Resistance to Freezing (Freezing to Microwave) LUCIDEON PT 37 • 金属刮痕测试 Metal Marking (LUCIDEON PT 38) • 玻璃的“淬火测试” Annealing on Glass (ASTM C148 Method B and PT 39)
炊具 Cookware	<ul style="list-style-type: none"> • EN 12983-1, Cookware Manufacturer Association (CMA) Engineering Standards
烤具 Utensils for Baking	<ul style="list-style-type: none"> • EN 13834, Cookware Manufacturer Association (CMA) Engineering Standards
刀餐具 Tableware	<ul style="list-style-type: none"> • BS 5577, ISO 8442-1, ISO 8442-2, ISO 8442-5, ISO 8442-9
保温容器 Insulated Container	<ul style="list-style-type: none"> • EN 12546-1, EN 12546-2, EN 12546-3

化学测试 Chemical Test

材质类型 Material Type	法规 Regulation	测试项目 Testing Items
塑料 Plastic	EU No.10/2011 及修订法规	全面迁移 Overall Migration
		可溶性重金属 Soluble Heavy Metal
		特殊迁移例如甲醛特殊迁移 (针对美耐皿) Specific Migration such as Specific Migration of Formaldehyde (for Melamine)
		初级芳香胺特殊迁移 Specific Migration of Primary Aromatic Amine
有机涂层 Organic Coating	AP (2004) 1	全面迁移 Overall Migration
		可溶性重金属 Soluble Heavy Metal
		特殊迁移例如环氧衍生物特殊迁移 (针对环氧涂层) Specific Migration of BADGE, BADGE Derivatives, BFDGE, NOGE (for Epoxy Coating)
		全氟辛酸磺酸盐特殊迁移 (针对聚四氟乙烯涂层) Specific Migration of PFOS (for PTFE Coating)
硅胶 Silicone Rubber	AP (2004) 5	全面迁移 Overall Migration
		挥发性有机物 VOC
橡胶 Rubber	AP (2004) 4 & 93/11/EEC	全面迁移 Overall Migration
		亚硝胺和亚硝基化合物 Nitrosamine and Nitrosatable Substances
		初级芳香胺特殊迁移 Specific Migration of Primary Aromatic Amine
纸制品 Paper	Regulation (EC) No.1935/2004 & CM/Res (2020) 9	可溶性重金属 Extractable Heavy Metal
		五氯苯酚 Pentachlorophenol (PCP)
		防腐效应 Preserving Effect
		二苯甲酮和4-甲基二苯甲酮特殊迁移 Specific Migration of Benzophenone and 4-methylbenzophenone
		颜色迁移 (仅针对有颜色的纸) Migration of Colorants (Only for Colour Paper)
金属 Metal	Regulation (EC) No.1935/2004 & CM/Res (2013) 9	可溶性重金属 (银, 铝, 铜, 铬, 钴, 铁, 锰, 钼, 锡, 钒, 锌, 砷, 钡, 铍, 镉, 汞, 锂, 铅, 铋, 铊, 铪, 镁, 钛) Extractable Heavy Metal: (Ag, Al, Cu, Cr, Co, Fe, Mn, Mo, Ni, Sn, V, Zn, As, Ba, Be, Cd, Hg, Li, Pb, Sb, Tl, Mg, Ti)
木制品 Wood	Regulation (EC) No.1935/2004	甲醛 Formaldehyde
		五氯苯酚 Pentachlorophenol (PCP)
陶瓷, 玻璃, 搪瓷 Ceramic, Glass, Enamel	84/500/EEC & 2005/31/EC	可溶性铅镉 Extractable Lead and Cadmium

▶ 德国、法国、意大利对食品级的额外要求 Foodgrade Specific Requirements of Germany, France and Italy

相关法规 Related Regulations

- 德国 Germany: LFGB
- 法国 France: French DGCCRF DM-4B-COM-001/002/003/004
- 意大利 Italy: LAW No.283 of 30.4.1962 and the Ministerial Decree of 21 March 1973 with its amendments

德国 Germany		法国 France		意大利 Italy	
材质类型 Material Type	测试项目 Testing Items	材质类型 Material Type	测试项目 Testing Items	材质类型 Material Type	测试项目 Testing Items
硅胶, 橡胶 Silicone and Rubber	铅和镉 Pb and Cd 多环芳香烃 PAHs 颜色迁移 Color Release	陶瓷, 玻璃 Ceramic, Glass	可溶性铝、钴、砷 Extractable Al, Co, As 杯边测试 Lip and Rim Test	塑料 Plastic	颜色迁移 Color Migration
陶瓷, 玻璃, 搪瓷 Ceramic, Glass, Enamel	可溶性钴 Extractable Cobalt 杯边测试 Lip and Rim Test	铝 / 铝合金 Aluminum / Aluminum Alloy	金属成分分析 Metal Composition Analysis	铝 / 铝合金 Aluminum / Aluminum Alloy	金属成分分析 Metal Composition Analysis
除了陶瓷、玻璃、搪瓷外的所有产品 All Except Ceramic, Glass, Enamel	感官测试-味道和气味 Sensory Test-Taste and Odor	不锈钢 Stainless Steel	金属成分分析 Metal Composition Analysis	不锈钢 Stainless Steel	全面迁移测试 Overall Migration 镍铬锰溶出量测试 Extractable Ni Cr & Mn
塑料 Plastic	更多的特殊迁移 More Specific Migration	硅胶 Silicone Rubber	过氧化值 Peroxide Value 有机锡以锡计 Organotin Measured as Tin	陶瓷 Ceramic	可溶性钴 Extractable Cobalt 杯边测试 Lip and Rim Test
橡胶 Rubber	甲醛特殊迁移 Extractable Formaldehyde 邻苯二甲酸盐特殊迁移 Specific Migration of Phthalate 锌含量 Zn Content	搪瓷 Enamel	可溶性六价铬 Extractable Cr (VI) 可溶性铝、钴、砷 Extractable Al, Co, As 杯边测试 Lip and Rim Test	玻璃 Glass	全面迁移测试 Overall Migration 可溶性铅 Extractable Lead Content 杯边测试 Lip and Rim Test
木制品 Wood	总砷 Total Arsenic (As) 杀虫剂 Pesticides	橡胶 Rubber	甲醛的特殊迁移 Extractable Formaldehyde 过氧化值 Peroxide Value 挥发性有机物 VOC		
		钢 Steel	限制金属元素测试 Content of Undesirable Elements		

▶ 美国对食品接触材料和制品的要求 US Requirements for Food Contact Materials

美国食品级法规 US Food Grade: U.S.FDA CFR 21 PART 175-189 & FDA CPG 7117.05,06.07

美国 FDA 对与食品接触容器及材料的通用要求: General Requirement for Materials in Contact with Food:

测试标准 Testing Standards	测试项目 Testing Items
U.S.FDA CFR 21 175.300	有机涂层要求 Organic Coating Requirement
U.S.FDA CFR 21 176.170	纸制品要求 Paper and Paperboard Requirement
U.S.FDA CFR 21 178.3800	木材要求 Wood Requirement
U.S.FDA CFR 21 181.32 and 180.22	ABS 塑料要求 ABS Requirement
U.S.FDA CFR 21 177.1210	食品容器的密封圈要求, 如硅橡胶圈 Closure with Sealing Gaskets for Food Containers, e.g. Silicone Rubber Sealing Gasket
U.S.FDA CFR 21 177.1460	美耐皿树脂要求 Melamine Resins Requirement
U.S.FDA CFR 21 177.1500	尼龙塑料要求, 如尼龙 6、尼龙 66、尼龙 610、尼龙 6/66、尼龙 6/12、尼龙 12T 等 Nylon Requirement, e.g. Nylon 6, Nylon 66, Nylon 610, Nylon 6/66, Nylon 6/12, Nylon 12T, etc.
U.S.FDA CFR 21 177.1520	PP, PE 塑料要求 PP, PE Requirement
U.S.FDA CFR 21 177.1580	PC 塑料要求 PC Requirement
U.S.FDA CFR 21 177.1630	PET 塑料要求 PET Requirement
U.S.FDA CFR 21 177.1640	PS 塑料要求 PS Requirement
U.S.FDA CFR 21 177.1655	聚枫树脂要求 Polysulfone Resin Requirement
U.S.FDA CFR 21 177.1830	苯乙烯-甲基丙烯酸甲酯共聚物要求 Styrene-Methyl Methacrylate Requirement
U.S.FDA CFR 21 177.1900	脲醛树脂要求 Urea-Formaldehyde Resin
U.S.FDA CFR 21 177.2410	酚醛树脂要求 Phenolic Resin
U.S.FDA CFR 21 177.2420	共聚聚酯树脂要求 Polyester Resin, Cross-Linked
U.S.FDA CFR 21 177.2600	橡胶要求, 如 SBS, TPR 等 Rubber Requirement, e.g. SBS, TPR
U.S.FDA CFR 21 177.05	镀银制品要求 Silver Plated Requirement
U.S.FDA CFR 21 177.06,07	玻璃、陶瓷、搪瓷食品器皿要求 Ceramic, Glass, Enamel Food Ware Requirement
ASTM C373	陶瓷器皿的吸水率 Water Absorption
ASTM C149	玻璃容器的耐热性 Thermal Shock Resistance of Glass Containers
ASTM C554	涂釉陶瓷器皿热冲击测试的抗裂性 Grazing Resistance of Fired Ceramic Whiteware by Therman Shock Method

加州 65 California Proposition 65

出口至加州的器皿，必须符合加州 65 条例要求（包括器皿与食品接触的部分、外部装饰、杯边部位）。涵盖的产品有：

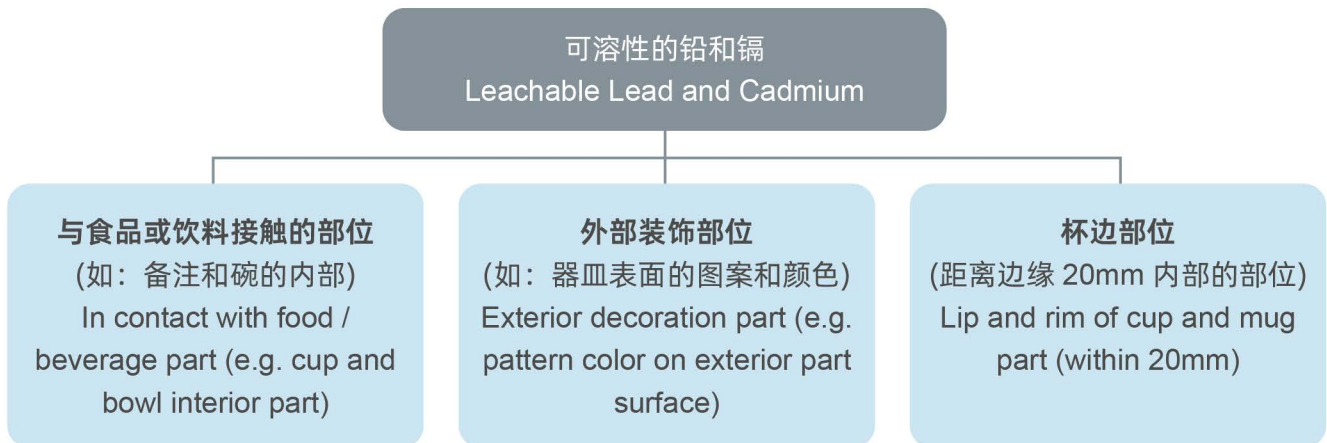
- 用于储存、承载食品或饮料的玻璃和陶瓷制品
- 非与食品或饮料接触的玻璃和陶瓷制品（日用品）

For wares exported to California, they should meet California Proposition 65 requirements (including ware in contact with food part, exterior decoration, rim part of cup and mug). Covered products are:

- Food / beverage glass and ceramic products that are intended for the storage, serving of, and consumption of food and beverages
- Non-food / beverage glass and ceramic products (household products)

加州 65 对陶瓷、玻璃制品的额外要求

California Proposition 65 Ceramic & Glass Product Requirement



▶ 澳大利亚对食品接触材料和制品的要求

Australia Requirements for Food Contact Materials

澳大利亚目前没有如欧盟 (EC) No.1935/2004 或美国 FDA 的统一法规区管控食品接触材料。

In Australia, no clear defined united regulation as EU Regulation (EC) No.1935/2004 or US FDA.

塑料 Plastics	欧盟 EU 10/2011 或美国 FDA 的测试项目均适用于澳洲 AS 2070: 1999 要求 Adapt either EU 10/2011 or US FDA requirement as stated in AS 2070: 1999
陶瓷、玻璃、陶瓷器皿 Ceramic Ware, Glass Ware, Enameled Ware	法律法规：澳洲 No.289,1991 条例 (No.90,1956 条例修改版) Adapt Australia No.289,1991 (amendment of regulation No.90,1956) 测试项目：可溶性铅和镉测试，依据 BS4860-1 and 2 Test: extractable lead and cadmium according to BS 4860-1 and 2
金属器皿 Metal Ware	法律法规：参考欧盟 EU 1935/2004/EC Refer to EU 1935/2004/EC 可溶性重金属 (银, 铝, 铜, 铬, 钴, 铁, 锰, 钼, 锡, 钒, 锌, 砷, 钡, 铍, 镉, 汞, 锂, 铅, 铋, 铈, 镁, 钛) Extractable Heavy Metal: (Ag, Al, Cu, Cr, Co, Fe, Mn, Mo, Ni, Sn, V, Zn, As, Ba, Be, Cd, Hg, Li, Pb, Sb, Ti, Mg, Ti)

▶ 日本对食品接触材料和制品的要求
Japanese Requirements for Food Contact Materials

材质类型 Material Type	法规 Regulation	测试项目 Testing Items
塑料 Plastic	JFSL 370	<ul style="list-style-type: none"> • 材料测试: 铅、镉 Material Test: Pb, Cd • 溶出测试: 重金属 Extractable Test: Heavy Metal • 甲醛 Formaldehyde • 苯酚 Phenol • 高锰酸钾消耗量 Potassium Permanganate Consumption • 蒸发残渣 Evaporation Residue • 正庚烷 Heptane • 20% 乙醇 20% Ethanol • 蒸馏水 Water • 4% 醋酸 4% Acetic Acid • 颜色迁移 Colour Migration
硅胶、橡胶 Silicone Rubber, Rubber		<ul style="list-style-type: none"> • 材料测试: 铅、镉、2-咪唑啉硫酮 Material Test: Pb, Cd 2-Mercaptoimidazoline • 溶出测试: 重金属 Extractable Test: Heavy Metal • 甲醛 Formaldehyde (Elution) • 苯酚 Phenol (Elution) • 锌 Zn • 蒸发残渣 Evaporation Residue • 正庚烷 Heptane • 20% 乙醇 20% Ethanol • 蒸馏水 Water • 4% 醋酸 4% Acetic Acid • 颜色迁移 Colour Migration
金属 Metal		<ul style="list-style-type: none"> • 可溶性重金属 Extractable Heavy Metal
陶瓷, 玻璃, 搪瓷 Ceramic, Glass, Enamel		<ul style="list-style-type: none"> • 可溶性铅镉 Extractable Lead and Cadmium • 颜色迁移 Colour Migration

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