



Choose certainty.  
Add value.

## Ensure a safer kitchen 让您的厨房获得更多安全保障

### Your challenges

With the fast-development of food science technologies and packaging industries, new types of packaging materials are constantly emerging. Food contact materials are no longer limited to bamboo, wood and ceramic products and have now expanded to polymer materials.

Understanding how to regulate and manage all kinds of food packaging materials has become an increasing concern for governments. Developed countries and authorities like the European Union Management Committee (EC), United States Food and Drug Administration (FDA) have established strict food contact material standards and regulations. One example is Germany's LFGB regulation. As a result, food contact materials must be compliant to the relevant regulations and standards when exporting to these markets.

### 您面临的挑战

随着食品科技和包装工业的迅速发展，许多新型的包装材料和包装形式不断出现，食品接触材料的种类再也不限于原始的竹木制品、陶瓷制品，高分子材料等新材料的广泛应用大大丰富了食品接触材料的种类。

如何对各类包装材料在食品中的应用进行规范和管理一直受到各国政府的关注。发达国家都建立了严格的食品接触材料法规和标准体系，如欧盟管理委员会（EC）、德国的LFGB认证、美国食品药品监督管理局（FDA）等颁布的相关法规和标准。这就意味着我国出口的食品接触材料必须符合这些输入国的相关法规标准要求，才能确保产品的质量安全并顺利进入国际市场。



TÜV SÜD provides safety and quality solutions based on the global standards and market requirements. Our testing and certification services help our customers increase their competitive advantage globally by ensuring your cookware products are compliant to international regulations in order to gain global market access.

TÜV南德意志集团依据相关技术标准及市场要求等为食品接触材料中的厨房用具提供测试、认证及解决方案。我们的服务致力于确保厨房用具产品质量及安全，提升产品质量，以符合国际市场标准要求。我们的服务为客户提升卓越竞争力。

## Our services 我们的服务

Technical standard 技术标准	Description	说明
<b>Europe 欧洲</b>		
BS EN 1183:1997	Materials and articles in contact with foodstuffs - test method for thermal shock and thermal shock endurance	接触食品的材料和物品——对于热冲击和热冲击持久性的测试方法（冷热冲击测试）
BS EN 12875-1:2005	Mechanical dishwashing resistance of utensils. Reference test method for domestic articles	器皿的耐机洗性，家用物品的参考试验方法
BS EN 1217:1998	Materials and articles in contact with foodstuffs - Test method for water absorption of ceramic articles	接触食品的材料和物品——陶瓷制品吸水率测试
DIN 44904:1989	Holloware for electric cookers, dimensions, requirements and testing	电灶用炊具：尺寸，要求和检验
STIWA:01-2008	Stiftung Warentest publication reg. coated pans test	商品测试基金会出版对于涂层锅子的相关测试
BS 5577:1999	Specification for table cutlery with non-metallic handles	桌上餐具——非金属手柄餐具的规格
BS EN ISO 8442-1:1998	Materials and articles in contact with foodstuffs - cutlery and table holloware - part 1: Requirements for cutlery for the preparation of food	桌上餐具——准备食品用到的餐具的要求
ISO 8442-2:1997	Materials and articles in contact with foodstuffs - cutlery and table holloware - part 2: Requirements for stainless steel and silver-plated cutlery	桌上餐具——不锈钢餐具及镀银餐具的要求
BS EN 12546-1:2000	Materials and articles in contact with foodstuffs - Insulated containers for domestic use - Part 1: Specification for vacuum ware, insulated flasks and jugs	能接触到食物的物料和产品——家用保温容器——1部分：真空瓶、保温壶和杯的规格

BS EN 12546-2:2000	Materials and articles in contact with foodstuffs - Insulated containers for domestic use - Part 2: Specification for insulated bags and boxes	能接触到食物的物料和产品——家用保温容器——第2部分：保冻袋和盒的规格
BS EN 12546-3:2000	Materials and articles in contact with foodstuffs - Insulated containers for domestic use - Part 3: Specification for thermal packs	能接触到食物的物料和产品——家用保温容器——第3部分：保温包的规格
EN 15284:2007	Materials and articles in contact with foodstuffs - Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastic cookware	能接触到食物的物料和产品——陶瓷、玻璃、玻璃陶瓷、塑料炊具的抗微波加热测试方法
BS EN 12983-1:2000	Cookware - Domestic cookware for use on top of a stove, cooker or hob - part 1: General requirements	用于炉头、蒸煮机、铁架上的家用炊具——一般要求
DD CEN/TS 12983-2:2005	Cookware - Domestic cookware for use on top of a stove, cooker or hob - Part 2: Further general requirements and specific requirements for ceramic, glass and glass ceramic cookware	用于炉头、蒸煮机、铁架上的家用炊具——对于陶瓷、玻璃、玻璃陶瓷炊具的要求
BS EN 13750: 2002	Domestic water kettles for use on top of stove, cooker or hob - Requirements and test methods	家庭用于炉子、炊具、壁炉搁架上的水壶——要求和测试方法
BS EN 13834:2007+A1:2009	Cookware - Ovenware for use in traditional domestic ovens	炊具——一般家用的烘箱器皿

### United States of America 美国

ASTM C 149-2014	Standard test method for thermal shock resistance of glass containers	对于玻璃容器的热冲击测试方法
ASTM C 368-88(2011)	Standard test method for impact resistance of ceramic tableware	对于陶瓷餐具的抗冲击测试方法

### China 中国

GBT 3298-2008	Standard test method for crazing resistance of domestic ceramic ware by a thermal shock method	日用陶瓷器抗热震性测定方法
GBT 4547-2007	Glass containers- test methods of the thermal shock resistance and thermal shock endurance	玻璃容器抗热震性和热震耐久性试验方法
GBT 11416-2002	Domestic insulated containers	日用保温容器
GBT 15067.2-1994	Stainless steel cutlery	不锈钢餐具
GBT 27587-2011	Test method for the resistance to microwave heating of domestic ceramicware	日用陶瓷耐微波加热测试方法
GBT 29601-2013	Stainless steel ware	不锈钢器皿
GBT 29606-2013	Stainless steel vacuum flask	不锈钢真空杯
QBT 2174-2006	Stainless steel kitchen ware	不锈钢厨具
QBT 2332-1997	Stainless steel vacuum container	不锈钢真空保温容器
QBT 2421-1998	Aluminium non-stick pan	铝及铝合金不粘锅
QBT 2933-2008	Double decker cup	双层口杯
QBT 4049-2010	Plastic cup	塑料饮水口杯
QBT 4624-2013	Thermal insulation containers - Foam boxes	保温容器 保温箱



## Testing services

### Physical and performance testing

#### Cookware

- Stability test
- Resistance to burning test
- Heat resistance test
- Torque resistance test
- Bending strength test
- Fatigue resistance test
- Thermal hazards test
- Pencil hardness test
- Pouring test
- Base stability under shock conditions test
- Resistance to pull of handle assembly test
- Thermal shock resistance of glass lids test
- Leakproof test
- Resistance to microwave heating test

#### Tableware

- Resistance to corrosion test
- Strength test
- Firmness of handle attachment test
- Hardness test
- Resistance to dropping test
- Resistance of plastic handles to softening at elevated temperatures test
- Resistance of plastic handles to environmental stress cracking test
- Resistance of handles other than ceramic or glass to distortion in hot water test
- Resistance of ceramic and glass handle to cracking test
- Pouring test
- Stability test
- Heat loss test

## 测试服务

### 物理性能测试

#### 炊具

- 稳定性测试
- 抗燃烧测试
- 耐热性测试
- 抗扭力测试
- 弯曲强度测试
- 疲劳测试
- 热危害测试
- 铅笔硬度测试
- 流出性测试
- 冲击环境下的底部稳定性测试
- 手柄抗拉测试
- 玻璃盖的抗热冲击测试
- 防漏测试
- 抗微波加热测试

#### 餐具

- 抗腐蚀测试
- 强度测试
- 手柄牢固度测试
- 硬度测试
- 抗跌落测试
- 高温下的塑料手柄抗软化测试
- 塑料手柄的抗环境分裂测试
- 除了陶瓷或玻璃手柄的抗热水变形测试
- 陶瓷和玻璃手柄的抗裂测试
- 流出性测试
- 稳定性测试
- 热损耗测试



- Thermal shock test
- Stopper and seal leakage test
- Impact test
- Handle test
- Insulation performance test
- Cleaning test
- Leak resistance test
- Load resistance test
- Puncture resistance test

#### Ceramicware & Glassware

- Thermal shock test
- Mechanical dishwashing resistance test
- Water absorption test
- Craze resistance test
- Impact resistance test

#### Your business benefits

As a leading, global technical service provider, TÜV SÜD is committed to provide one stop solution to kitchenware worldwide.

- **Enhance credibility** - by obtaining the GS mark and TÜV SÜD mark
- **Safeguard your whole supply chain** - through our testing services and technical support
- **Benefit from our one-stop testing solution** - which includes:
  - Chemical analysis
    - LFGB testing
    - PAHS analysis
  - Material composition analysis
    - Material in contact with food - Metal/Non Metal

- 热冲击测试
- 塞子密封性测试
- 冲击测试
- 手柄测试
- 绝缘性能测试
- 清洗测试
- 抗漏测试
- 负载测试
- 刺穿测试

#### 陶瓷器皿和玻璃器皿

- 热冲击测试
- 机械洗碗测试
- 吸水率测试
- 抗裂纹测试
- 抗冲击测试

#### 您的收益

作为全球领先专业技术服务提供商，TÜV南德意志集团致力于为全球厨房用具安全提供一站式解决方案。

- **品牌提升**——GS标志和TÜV SÜD标志
- **测试服务和技术支持**——覆盖整个供应链的安全保障
- **综合服务**——我们综合测试中心可以为您提供：
  - 化学分析
    - LFGB测试
    - PAHS 分析
  - 材料成分分析
    - 与食品接触的材料分析——金属或非金属

High quality outsourcing laboratory and TÜV SÜD benchmark alignment	
欧盟 European Union	(EC) No 1935/2004, (EU) No 10/2011, (EC) No 1895/2005 84/500/EEC & 2005/31/EC
欧洲议会 Council of Europe	Council of Europe Resolution CM/Res (2013) 9 on metals and alloys used in food contact materials and articles
欧洲议会 Council of Europe	Resolution ResAP (2002) 1 on paper and board materials and articles intended to come into contact with foodstuffs
欧洲议会 Council of Europe	Resolution ResAP (2004) 1 on coatings intended to come into contact with foodstuffs
欧洲议会 Council of Europe	Resolution ResAP (2004) 4 on rubber products intended to come into contact with foodstuffs
欧洲议会 Council of Europe	Resolution ResAP (2004) 5 silicones used for food contact applications
法国 France	French DGCCRF Information Notice 2004/64 and amendments on materials in contact with foodstuffs
德国 Germany	LFGB (German Food, Commodity and Feed Law) German Bfr Recommendations for specific materials
意大利 Italy	Ministerial Decree 21-03-1973, D.M. 21-03-1973 Hygiene regulation of packaging, containers and utensils intended to come into contact with foodstuffs or substances for personal use
瑞士 Switzerland	Swiss SR 817.023.21
美国 United States of America	FDA(Food and Drug Administration), CFR (Code of Federal Regulations) Title 21 and Cal 65 (California proposition 65)

## Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specializes in testing, inspection, auditing, certification, training and knowledge services. Represented by more than 24,000 employees across 850 locations worldwide, TÜV SÜD holds accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to the customers, TÜV SÜD adds tangible value to businesses, consumers and the environment.

## 权威认证，创享价值

TÜV南德意志集团是一家优质、安全和可持续发展的专业测试、检验、审核、认证，培训和知识服务解决方案提供商。我们在世界各地超过850多个代表处，员工约24,000人，因此在欧洲、美洲、中东、亚洲和非洲广受赞誉。通过为客户提供客观的解决方案，公司为企业、消费者和环境增添显著价值。

\* Some of the services listed are provided due to local regulations only and may not be available in other regions. Please contact us for further details.

\* 上述部分服务可能由于当地法规的原因而无法在您的地区提供。欢迎您与我们联系咨询。

## Our branches in Greater China:

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