



Ceramic Tableware Products Certification for Thai Entreperneurs

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Section of Product Certification
Department of Science Service
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Who are we?

- ▶ Department of Science Service (DSS) is a unit that has many scientific service missions. There are laboratories that have been accredited with an ISO / IEC 17025 in the scope of the list or feature covering a wide range of products.
- ▶ To complete the operation, the Department of Science Service then established a Section of Product Certification authorized by Division of Laboratory Competency and Product Certification.
- ▶ Section of Product Certification acts as a certified body by issuing a certificate and/or provide a certification mark so that the product has the qualification features in accordance with the terms, regulations, laws for each product.



**Test, Analysis and
Calibration Service**



**R&D and Technology
Transfer Service**



**Laboratory
Accreditation Service**



**Laboratory Proficiency
Testing**



**Laboratory Personnel
Development Services**



**Science and
Technology
Information Service**



**Certification of
Persons Conformed to
ISO/IEC 17024**





Why do we need to certify products?

- ▶ Product certification is one of the important processes in controlling product quality.
- ▶ In accordance with the requirements that help manufacturers, product supplier, there are guidelines and criteria for the design, production, and distribution to be consistent in the same direction.
- ▶ It also gives consumers confidence in the product that is good quality, safe, cost-effective and suitable for use.



How does product certification help entrepreneurs?

- ▶ To provide product quality assurance services to industry and domestic entrepreneurs.
- ▶ To make products manufactured or imported and exported for domestic and international sales with good quality according to relevant standards.
- ▶ To improve the quality of products manufactured in the country to be generally accepted.
- ▶ To provide advice to government agencies, the private sector and the general public in choosing to buy products to be suitable for use.



Standard that we use :

- ▶ Thai Industrial Standards (TIS) which are ceramic ware in contact with food :
 - TIS 564-2546 porcelain
 - TIS 601-2546 earthenware
 - TIS 602-2546 stoneware

whereas individual international standards which are equivalent and applied to each product if it is necessary as well. Meanwhile, TIS standards are not reliable enough for customers in certain countries to consider and purchase. Therefore, ISO standards are carried out to approve final result.

- ISO 6486 Ceramic ware, glass-ceramic ware and glass dinnerware in contact with food
 - Release of lead and cadmium
- ASTM C554-93 Standard test Method for Craze Resistance of Fired Glazed Ceramic Whitewares by Thermal Shock Method
- ASTM C424-93 Standard test Method for Craze Resistance of Fired Glazed Ceramic Whitewares by Autoclave Treatment



Specifications of Ceramic Tableware Products which were determined :

- ▶ Surface Imperfections or Defects on Ceramics
- ▶ Water Absorption
- ▶ Craze Resistance of Ceramic Ware by a Thermal Shock Method
- ▶ Craze Resistance of Fired Glazed Whitewares by Autoclave Treatment
- ▶ Lead and Cadmium Extracted from Glazed Ceramic Surfaces (The acceptable amount of these two elements are different depending on the type of ceramic ware.)
- ▶ Microwave Safe for Reheating for Ceramic Ware (ASAP)



Advantages of Product Certificates :

- ▶ To protect customer's rights
- ▶ To provide marketing benefits
- ▶ To help domestic traders meet international standards, then expand their business to overseas market
- ▶ To oblige producer or manufacturer to keep good quality at all times

Some of products from manufacturers that could get product certificates





Certificate of Conformity

Certificate No. 01-02-61

This certificate was provided by Department of Science Service to confirm that

Product Ceramic Ware
Product Details STORNEWEAR CERAMIC MUG Model AA
Manufacturer CC CO.,LTD.
Address of Holder 1/2, DD, EE, Bangkok 10xxx
Address of Manufacturer 1/2, DD, EE, Bangkok 10xxx

has been tested and is hereby confirmed to be in conformity with the requirements of quality control of product provided by Department of Science Service. This certified product complies with the standard regulation relating to

TIS 602-2546 Ceramic Ware In Contact with Food; Stoneware

According to the above mentioned Directive, the holder of the certificate is authorized to use this certificate in connection with the DSS declaration of conformity and must strictly follow all regulation of the use of certificate. The certified products proceed to the fullness examination of the Department of Science Service to archive as Product Certification Scheme Type 1a

Certificate Issue Date: xx May 20xx

Certificate Expiry Date: yy May 20yy

(Umaporn Sukmoung)

Director- General of Department of Science Service

The first certification was provided on xx May 20xx

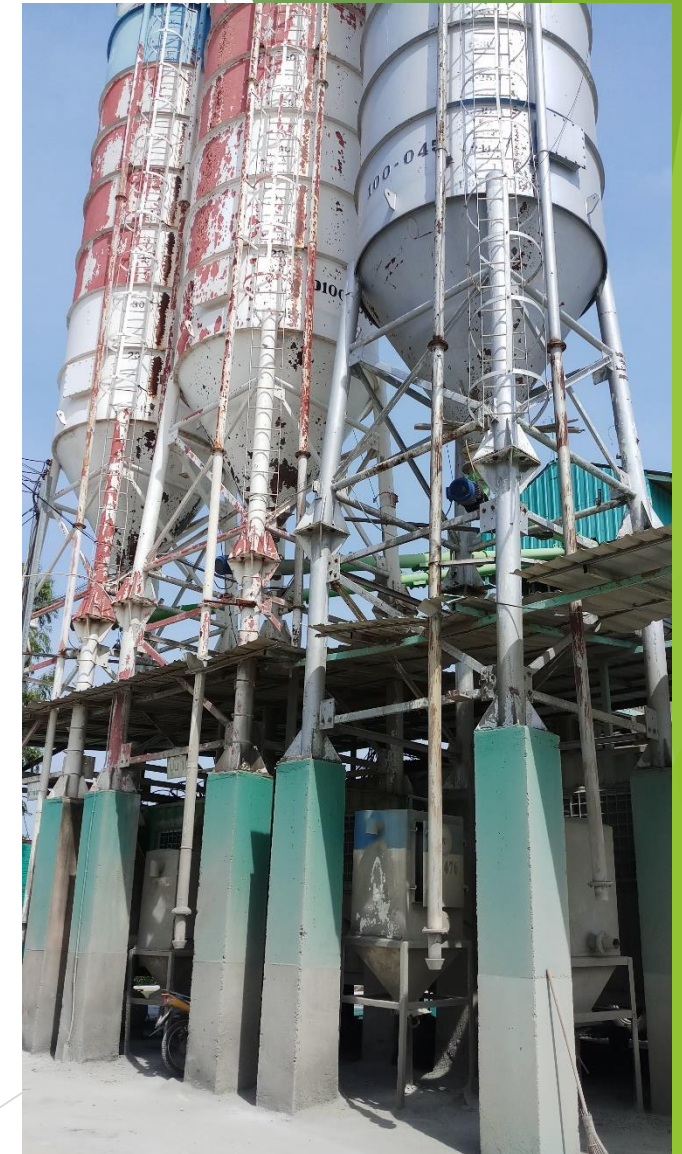
Authorized by Section of Product Certification Tel. +66 22017341-2

Department of Science Service

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Another Project of Certification : Construction Materials



QR code for leaflet - Ceramicware Certification



<https://drive.google.com/open?id=12oUjp-LteEhcUJHjbl-mPc3Otd2wxtXn>

Website : <http://www.dss.go.th/index.php/annpolicyproduct>

Thank you And Questions

**Section of Product Certification, Division of Laboratory Competency and Product Certification
Department of Science Service**

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