

ELECTRICAL & ELECTRONICS
PRODUCT CERTIFICATION



TRUSTED PRODUCT CERTIFICATION SERVICES

GLOBAL CERTIFICATION SOLUTIONS FOR **ELECTRICAL & ELECTRONICS**



LOCALLY AVAILABLE WORLDWIDE

Electrical and electronic product manufacturers and retailers are under increasing pressure from clued up consumers who know about sustainability, energy efficiency and green issues. Partner with SGS to deliver well designed, desirable goods that are trusted for real life whilst ensuring quality, safety and sustainability for retailers and consumers.

WHO ARE SGS?

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognised as the global benchmark for quality and integrity. With **90,000 employees**, SGS operates a network of over **2,000 offices** and laboratories around the world.

As a result, our expertise provides a single consolidated source to reduce your risk, improve efficiency and quality, and ensure compliance.

SOLUTIONS

- Hazardous substances
- Product safety
- EMC (Electromagnetic Compatibility)
- Audit & certification
- Performance & reliability
- Product inspection
- Sustainability (ErP - Energy related Products, Ecodesign, Energy Efficiency, PEP - Product Environmental Profile, etc.)

NEW MARKETS AND PRODUCTS

- Electro medical devices
- Wireless devices & applications
- Photovoltaic modules

COVERING ALL CONSUMER ELECTRONICS

- Household appliances
- Luminaries
- Batteries
- Power supplies
- Information Technology (IT)
- Audio/Video equipment
- Power tools
- Automotive parts

THINKING SUSTAINABLY

Across our global network of sustainability experts we can support your company in its strategy by offering a range of services covering the environmental, safety and social aspects of sustainability:

- Restricted substances management
- Social responsibility solutions
- Ecodesign services

What top products need is a visible sign of quality and safety. We are able to grant you internationally recognised certifications.

WHY CHOOSE SGS CERTIFICATIONS?

RETAILERS

No more Golden Sample failures. Retailers have a reliable proof that all products have the quality of the initial samples. Our certification programmes drastically reduce product recall instances, as components, final product and production processes are thoroughly analysed as part of the certification.

MANUFACTURERS

Certification reflects the compliance of a specific product with the required product standards. A distinction is made between mandatory certifications and voluntary certifications. Voluntary certifications bring you added value, as your product will have a higher chance of quickly satisfying product requirements set out by multiple retailers and importers. End consumers tend to hold in high regard products that have been independently certified and as such, a certification mark will support differentiate between your product and that of your competitors.

SGS PRODUCT CERTIFICATIONS PROVE

- Compliance with international standards
- Quality
- Constant production practices
- Verification of testing
- Independent control by a reputable Certification Body
- Customer confidence



YOUR BENEFITS

- Fast market access for your product
- Promote competitiveness in different markets
- Reduce your product-related risks
- Protect your brand and get sales advantages
- Be present on our register of certified products
- Make your quality and safety visible

WORLDWIDE MARKET ACCESS

Do you want an overview of all Safety, EMC and RoHS standards and requirements for the most important import and export countries? Visit our website for more details.
www.sgs.com/ee



INTERNATIONAL MARKS

As a notified and accredited Certification Body (CB) SGS operates one of the largest Safety & EMC testing & certification networks in the world.



SGS SAFETY MARK

The global SGS Product Safety mark allows you to prove that your product fulfils all relevant Product Safety requirements applicable on the market of your interest.

If you are granted the SGS Product Safety Certification, your product will easily fulfil the requirements of any other safety mark in the world.



SGS EMC MARK

The Electromagnetic Compatibility (EMC) of E&E products is regulated in almost all markets around the world.

Achieving SGS EMC certification will make the task of applying for various certification marks or obtaining approval in specific markets simple, straightforward, and efficient. SGS operates the biggest, fully equipped and most effective EMC certification networks in the world.



IECEE / CB SCHEME

This is a scheme for mutual recognition of tests performed worldwide based on IEC standards, in order to give national marks.

The CB Scheme has become an effective worldwide "one stop testing" passport, which is used in most cases as a stand-alone document.

As a CB member, SGS can get you closer to the "one product, one test, one mark" way of doing business.



REGIONAL CERTIFICATION MARKS THE AMERICAS



SGS NORTH AMERICA MARK

The SGS North America mark was developed in the United States to certify conformity of electrical products to the US and Canadian standards through a third party certification lab. The certification process includes product safety testing and inspections.

SGS North America is a Nationally Recognised Test Laboratory (NRTL), officially recognised by the American Occupational Safety and Health Administration (OSHA) for safety and compliance.

SGS North America is a NRTL, officially recognized by OSHA.



FCC USA

The U.S. Federal Communications Commission (FCC) is a federal government agency that regulates interstate and international communications by radio, television, wire, satellite and cable.

SGS provides independent FCC testing and certification services that will support get your products to market faster. As an FCC designated Telecommunication Certification Body (TCB), SGS can act as a one-stop-shop for all your FCC testing and certification needs.

INMETRO BRAZIL

INMETRO is a government branch responsible for adopting measurement and quality standards in Brazil. These standards guide the activities of accreditation, inspection, testing and certification bodies.

SGS is an INMETRO accredited certification body for the Brazilian market. E&E products that fulfill the relevant standards certified by INMETRO must carry the mandatory INMETRO Mark, along with the mark of the respective certification organisation.

REGIONAL CERTIFICATION MARKS ASIA - PACIFIC



CCC CHINA

The CCC - China Compulsory Certification mark is required for a wide range of manufactured products that are to be exported to and sold in the Peoples Republic of China (PRC) market. The CCC mark certifies that an electrical product has been tested in China and a China Quality Certification Centre auditor conducted the initial factory inspection.

As a CB Scheme member with a deep understanding of PRC's legislation and industries, SGS has the knowledge and experience you need to ensure your products satisfy the relevant requirements of the Chinese market.

HONG KONG ELECTRICAL PRODUCTS (SAFETY) REGULATION

The regulation requires all household E&E products to fulfil the safety requirements listed in Schedule 1 of the Regulation. Certain E&E products are classified as "prescribed products" and require a test report or certificate (CB, HOKLAS report) issued by "recognised certification body".

For all other E&E products, classified as "non-prescribed products", a declaration of conformity issued by the manufacturer is also accepted as a certificate of safety compliance.

SGS is accredited by the Electrical & Mechanical Service Department (EMSD) as a certification body for Hong Kong Electrical Products (Safety) Regulation.



CHINA ROHS

The Chinese regulation on chemicals & hazardous substances, called Management Methods for Controlling Pollution by Electronic Information Products (or China RoHS), has been effective since 1 March 2007. The regulation is applicable to all manufacturers, importers and retailers that place electronic information products on the Chinese market.

SGS offers clients support with China RoHS implementation proposals on a case by case basis. The consulting, testing, and certification services offered cover all the requirements of China RoHS.



BSMI MARK TAIWAN

The Bureau of Standards, Metrology and Inspection (BSMI) is the authority responsible for standardisation, metrology and product inspection in Taiwan. BSMI certification is the key to launching E&E products on the Taiwanese market. Both EMC & Safety tests are needed to acquire this certification.



KOREA KC MARK

The new Korea Certification scheme was enforced on 1 January 2011 for all electronic and electrical as well as wireless products.

A party intending to manufacture, sell or import electronic and electrical or wireless equipment, must have KC certifications on behalf of the old eK Mark and MIC Mark.

KOREAN ROHS

The Act for Resource Recycling of EEE and Vehicles adopted on 2 April 2007, includes RoHS, WEEE, and ELV aspects. Korean RoHS bans the same six hazardous substances as EU RoHS and also includes the same exceptions. It is based on a self declaration system, with no special mark needed.

The accredited SGS Korea labs can perform all product testing required by Korean RoHS.



AUSTRALIA RCM MARK

THE RCM mark replaces the need to mark products with both the C-Tick logo for EMC compliance and the electrical approval number. The usage of the RCM logo is intended to indicate that the product bearing the logo complies with all regulatory requirements. On March 1, 2013 both the ACMA and Regulatory Compliance Management ceased registering new suppliers. New suppliers must register as responsible suppliers on the EESS system, which is administered by ERAC. The old C-Tick logo cannot be used by these companies. Only Australian or New Zealand registered companies can register as responsible suppliers.

Suppliers, who registered with either ACMA or Regulatory Compliance Management before March 1, 2013 do not have to change their markings until March 2016.



VCCI MARK JAPAN

The Japanese Voluntary Control Council for Interference by Information Technology Equipment or VCCI is the body governing RF emissions. SGS can perform EMC tests to VCCI standards.

REGIONAL CERTIFICATION MARKS EUROPE



CE MARKING

CE (Conformité Européenne) marking is mandatory in the EU and has to be visible on all E&E products. It ensures the free movement of products within the EU single markets. CE is a self declaration by a manufacturer or importer, located within the European Economic Area, that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislations.

SGS is a notified body and able to support you in fulfilling the requirements of the following directives associated with CE marking:

- Low Voltage Directive
- EMC Directive
- Medical Directives
- Machinery Directive
- Technical Construction File
- Declaration of Conformity



The CE Marking for Medical Devices



HAR

The Pan-European voluntary HAR certification mark is a proof of quality for cables in Europe and encourages an efficient path to obtaining national certification marks through one set of tests. HAR certification includes the usual elements of product certification: type-testing, quality control in production and random testing of products taken from the market or the production line.



ROHS

The Directive on the Restriction of Hazardous Substances in Electrical and Electronic Equipment restricts the use of six hazardous substances in the manufacture of various types of electronic and electrical equipment.

The SGS RoHS Certification Programme is aimed at supporting producers meet the strict requirements of RoHS compliance. RoHS Certification supports manufacturers, retailers and suppliers mitigate the risk of noncompliance to regional and national restricted substances regulations.

The SGS RoHS certificate (RoHS label or RoHS mark) is valid for 5 years.



ENEC

The Pan-European voluntary certification mark ENEC (European Norms Electrical Certification) is an impartial quality mark for electrical equipment.

The ENEC mark requires impartial tests and quality control and corresponds to national certification marks granted by various certification bodies. The mark can be granted to manufacturers of products for which there are harmonised European standards listed in the ENEC agreement.

As a notified and accredited body SGS can grant you access to the ENEC mark.



SGS GS MARK GERMANY

The GS mark (Geprüfte Sicherheit = tested safety) is a well known and respected voluntary impartial certification mark. It accords to the German Equipment and Product Safety Act and usually requires European EN or German standards. GS certified products must also fulfill the requirements of the EMC directive.



SGS CEBEC MARK

The SGS CEBEC mark is a low voltage certification mark (1,000V). This product safety mark is well known to Belgian consumers and is particularly used in the appliance and installation industry. The SGS CEBEC division is a "Notified Body" in the framework of both the LVD and EMC Directive.



SGS BAUART MARK GERMANY

The SGS Bauart mark is mostly used for not-ready-for-use-products, such as motors or transformers, which often do not fall under the GS mark regulation. It is granted for all electrical and mechanical products, including components. As part of its cooperation with TÜV Saarland, SGS is able to offer its own and the SGS TÜV Bauart mark.



SGS FIMKO MARK & NORDIC CERTIFICATION

Covering Denmark, Finland, Sweden and Norway, the SGS Fimko mark is well recognised in the Nordic and Baltic countries and is valid throughout the EU. The mark shows that a product fulfils the safety requirements for Finland and also the relevant European EN and international IEC standards.

The Nordic Certification Service (NCS) applies to products for which there is a mutual standard agreed upon by the Nordic countries. As part of NCS, a product is tested by SGS Fimko or within its CB labs network.



EAC MARK RUSSIA

The EAC Mark applies to products that are within the scope of the Eurasian Customs Union. The Eurasian Customs Union has developed a number of Technical Directives, which establish the requirements for product certifications. Products that successfully pass the conformity testing based on TR EAC will be awarded the EAC mark.

POHS NORWAY

The Norwegian hazardous substances regulation (PoHS) will prohibit 10 hazardous substances from which only two (lead and cadmium), are also covered by EU RoHS. PoHS will also allow significantly fewer exceptions than the European directive.

TESTING AND CERTIFICATION SERVICES FOR E&E PRODUCTS

SGS's strong global network of third party services has supported us establish extensive and profound technical and business relationships with clients, international organisations and regulatory bodies in the area of electrical and electronics product certification. We provide international product accreditation services for the entire industry and make it convenient for you to enter the global market.



INTERNATIONAL TYPE APPROVAL (ITA)

So far we have introduced to you some of the most important certification marks we can offer.

In addition, our International Type Approval Service supports you to enter any of the world's markets. As different countries have their own independent quality assurance systems, you need to make sure your products comply with local:

- Safety requirements
- Energy efficiency requirements
- EMC requirements
- EMI requirements
- RF requirements
- and many others

TECHNICAL SERVICES

Our experts will make full use of their technical knowledge to draft a suitable strategy to explore and supports prepare your product for compliance with the testing and approval requirements of your target market.

TESTING SERVICES

Being accredited by national accreditation bodies such as CNAS, UKAS, Cofrac and CBTL, SGS is able to offer widely accepted testing reports and factory inspection reports, in accordance with IEC/EU/EN standards and the relevant country-specific variations. This translates into substantial time and cost savings for our clients.

DOCUMENT SERVICES

SGS experts have the relevant technical knowledge of international approvals and regulations to support you manage the process of collection and completion of the documentation needed to obtain a specific certification.

CONNECT WITH SGS

We identify the applicable regulations and standards for each of your specific product and target markets. We support you reduce risk, improve efficiency and ensure compliance to contractual or regulatory requirements in all your manufacturing, sourcing, distribution and retailing operations.

As you consider your company's compliance challenges, let SGS support you to make the best decisions for your business.

To keep abreast of the developments reshaping your industry sector, subscribe to our free publications at: www.sgs.com/subscribe.

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WHEN YOU NEED TO BE SURE

