bsi.

...making excellence a habit.™

BSI: Your testing and certification partner for global market access

Global market access for gas products

Introduction

We have been testing gas appliances since 1960. As a UKAS Accredited Certification Body, we have the expertise and integrity to independently endorse your product, your credentials, and your brand. Our status as a certification body help you meet and demonstrate compliance to relevant standards and legislation providing you access to different markets.
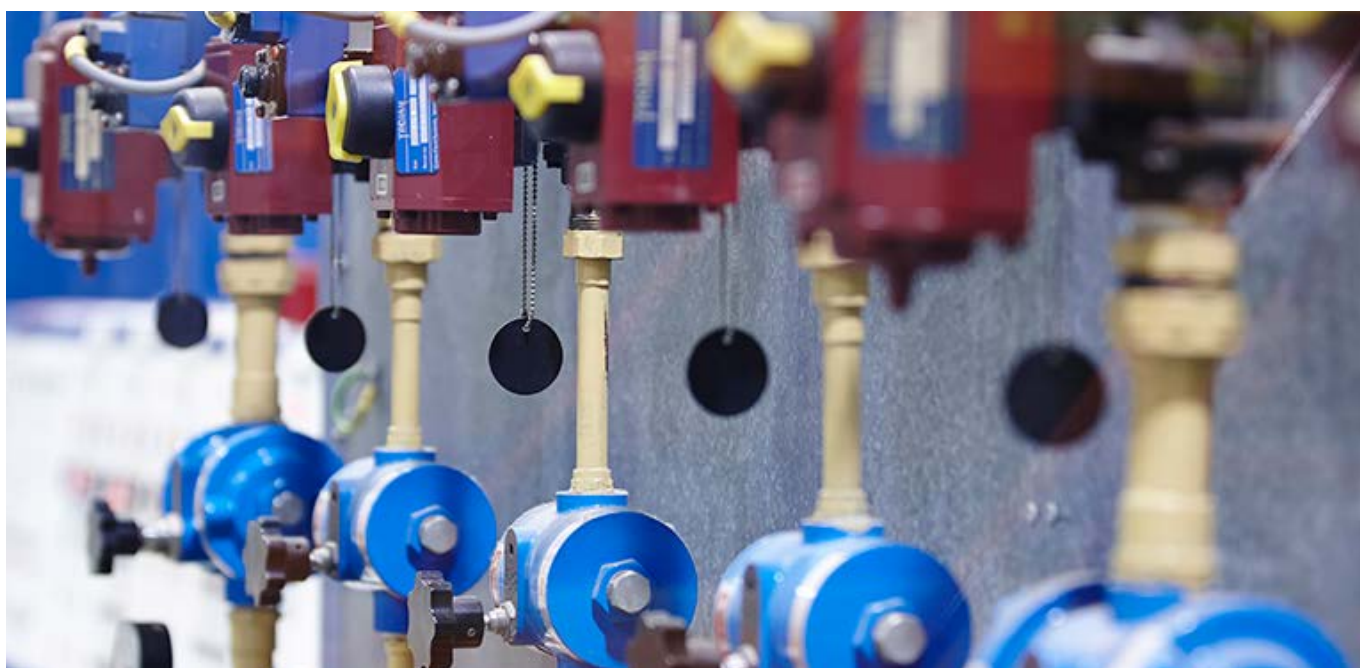
As BSI we have a full range of testing and certification services to enable you to bring your products to the market effectively. We are independent of all product suppliers, installers, and manufacturers, so we can guarantee a confidential and impartial service, and provide you with reliable objective guidance.

Exporting your products to global markets

International market access requirements can be difficult to identify, constantly evolving, and often complex to understand. As the UK National Standards body with offices in over 50 countries worldwide, BSI is ideally placed to become your partner to bring your products to market as quickly and efficiently as possible. By working with the specifying authorities, we understand how to meet individual regional requirements, and where appropriate, can help you gain BSI certification to provide a direct route to compliance.

Within the gas industry, we have been working with key export markets to develop local relationships with authorizing bodies, supporting them in the development of their approval process and gaining acceptance of BSI certification.

BSI is already well known for providing access to local and international markets.

Call: +44 345 0765 606 Email: product.certification@bsigroup.com Visit: bsigroup.com/appliances

BSI Certification marks

BSI Kitemark

The BSI Kitemark has been in existence since 1903. We're proud to own it. It's unique to BSI and has helped to address safety, quality, and security issues for thousands of products. The BSI Kitemark is a global marketing tool and BSI works with many authorizing bodies around the world to gain recognition of the Kitemark for your country.

Your commercial advantage:
The BSI Kitemark is a powerful marketing tool which works around the world as a global passport and market differentiator to help you gain access to new markets and consumer recognition.

Verification

Verification certification is a flexible process that helps demonstrate quality, safety, and is often used to gain market access where alternative routes do not yet exist. If no standard exists in the marketplace, BSI may be able to offer Verification Certification to other types of product specifications. If your organisation is required to make a self declaration (e.g., to comply with regulations), Verification Certification can support this and offer your customers increased levels of confidence in your product. Verification Certification also offers an advantage for procurement tenders, providing independent assurance of quality and safety.

Global market access

Access to United Kingdom: UKCA marking

If you want to place products on United Kingdom markets and your products fall within the scope of relevant Regulations, they must meet the essential requirements of these Regulations and you must make a declaration of conformity. UKCA must be in place for your product from launch. By UKCA marking you can offer customers a measure of reassurance about the quality and safety. As an Accredited Body (0086) we have the expertise to help you understand what your responsibilities are and will provide third-party evidence you need to be able to affix the UKCA mark to your products.

Access to Europe: CE marking

If you want to trade within the European Economic Area (EEA) and your products fall within the scope of a relevant Directives and Regulations, they must meet the essential requirements of the Directives and Regulations and you must make a declaration of conformity. CE marking must be in place for your product from launch. By CE marking you can offer customers a measure of reassurance about the quality and safety. As a Notified Body (2797) we have the expertise to help you understand what your responsibilities are and will provide third-party evidence you need to be able to affix CE mark to your products.

Access to the United Arab Emirates (UAE): UAE Civil Defence

It is now a mandatory requirement that gas components carry a Civil Defence Certificate of Conformity (CoC) to access the Emirates markets. The certification process is based on the BSI Kitemark certification and BSI has been approved as a testing and certification body for gas components. In most cases UAE Civil Defence requirements are adopted by neighbouring countries through their own Civil Defence departments. BSI has established a customer happiness centre in Oud Metha, Dubai to support manufacturers and traders in making Civil Defence applications.

Access to Australia and New Zealand: Australian Gas Safety (AGS) Certification

For access to Australia or New Zealand, gas products (appliances or components) must be certified to appropriate Australian and New Zealand Standards, and carry a recognized CAB certification mark and certification number, as well as a Regulatory Gas Compliance Mark (GCM). BSI is accredited by JAS-ANZ (the Joint Accreditation System of Australia and New Zealand) and has been approved as a Conformity Assessment Body (CAB) for providing this mandatory AGS Certification. Our laboratories in Australia, China, Korea, and the United Kingdom can undertake the required testing to Australian Standards and issue a JAS-ANZ accredited AGS Certificate.

Access to USA

BSI has a memorandum of understanding (MOU) with LabTest Certification Inc. for mutual acceptance of data for combustion equipment. This collaboration allows the two organizations to support customer globally to gain certification for North American markets.

Our gas appliance testing portfolio

Hydrogen testing

Hydrogen fuel offers cleaner, energy-efficient solutions as we work to decarbonize our gas network and wider lifestyles across the globe. With the flexibility of hydrogen, we can realize the revolutionary potential for zero-emission fuel for heating, hot water, and cooking in both commercial and domestic settings.

BSI's testing and certification services can help manufacturers of both gas-burning commercial and domestic appliances, such as boilers, cookers, heaters, etc., who are looking to start supplying appliances for use with hydrogen fuel. These appliances can be tested to meet UK Government guidelines of stage 1 – Admixture of methane/hydrogen (80%/20%) and stage 2 – mix up to >98% hydrogen.

BSI's experts can guide your organization on safe hydrogen burning, and our testing capabilities test a range of appliances that BSI support development of the infrastructure through testing and certification of products in accordance to PAS 4444.

Gas Appliances Regulations

The Regulation is concerned with the safety of gas appliances and related components placed onto the UK and European market, which must comply with the 'essential requirements' detailed.

Boiler Efficiency Directive

The Directive specifies minimum efficiency levels for heating boilers placed onto UK and European markets. Whilst this directive still applies; the limits have, in practice, been made obsolete by other more stringent regulations on energy efficiency (e.g.: the UK Building Regulations)

Construction Products Regulations

The Regulation provides a common technical language to assess the performance of construction products. It ensures that reliable information is available to professionals, public authorities, and consumers, so they can compare the performance of products from different manufacturers in different countries.

What we test and certify

Controls and ancillary items

All appliances are only as safe as the control and safety devices used within them. We test control devices either as a component part of an appliance, or they can be independently tested prior to being supplied to OEMs for inclusion with an appliance.

Burner controls

We can test against numerous standards including BS EN 298 and provide BSI Kitemark certification. Burner controls for gas appliances fall under the scope of Gas Appliances Regulations for which BSI is a Notified Body (CE) and Approved Body (UKCA).

Valves

These include ball valves and automatic shut off valves. We can test these products to a range of European, British, and International standards.

Hoses, connectors, and flexible tubing

The safety of hoses, connectors and flexible tubing is crucial, and they must be tested to ensure that they are robust particularly when connected to an appliance which is in use. We offer BSI Kitemark certification for these products to demonstrate safety and quality.

Press fittings

As use of these increases, the new Kitemark scheme for copper and stainless-steel press fittings based on BS 8537 and prEN 10351 is now available. There is currently no CE or UKCA marking required for these products so BSI Kitemark certification is a real differentiator and can help show truly independent third-party certification.

Chimneys and flues

These are tested to withstand high temperatures and safely remove carbon monoxide. They fall within the scope of the Construction Products Regulations (CPR) and BSI is a Notified Body (CE) and Approved Body (UKCA) to support your UKCA and CE marking for this regulation.

Leisure and camping appliances

We can carry out safety testing on a range of gas, solid fuel, and electric products intended for use in the leisure industry, such as:

- Gas barbecues and patio heaters

- Outdoor heating and lighting appliances

- Solid fuel barbecues

- Equipment for use in caravans and recreational vehicles

- Vapour-pressure camping equipment

In addition, we can frequently adapt our extensive test equipment to new types of products where needed, and we have facilities to evaluate:

- Gas and electrical refrigeration equipment

- Household and commercial gas and electric tumble dryers

- Household and commercial dishwashing machines

- Pumps

- Gas-proving and extraction systems for commercial kitchens ad schools

Domestic and commercial cooking appliances

Methods of cooking have become much more sophisticated over the years and continue to evolve rapidly. The arrival of induction cooking and pyrolytic self-cleaning has meant that cooking appliances often present new risks and incorporate complex electronic systems, so the need for technical capability and testing expertise has never been higher. We can help you with safety and performance testing of household and commercial gas cooking appliances.

If you are looking to access different markets, we can test products to a range of international standards including Australia and New Zealand, South Africa, the USA and Canada. We can also provide testing to support UKCA and CE marking for appliances, and BSI Kitemark certification to show quality, safety, and trust.

Water Heating appliances (including Micro CHP)

BSI has extensive facilities and experience with gas, electric and oil-fired water heating products, including those featuring new technologies (such as small-scale CHP or fuel cells) or those with complex control systems to provide high levels of efficiency or user comfort. The range of products we test include:

- Central heating boilers

- Combination boilers for heating and hot water

- Instantaneous water heaters (gas or electric)

- Storage water heaters (gas or electric)

- Pool and spa heaters

Gas Heating appliances

Space Heating and Air-conditioning appliances

We can evaluate a wide range of household and commercial gas-fired and electric space heating and cooling appliances:

- Household gas fires and electric heating appliances

- Household and similar gas fired air heaters

- Household electric heat pumps and air conditioning units

- Agricultural heaters

- Commercial warm air units (condensing or non-condensing)

- Commercial overhead radiant heating systems

Carbon Monoxide Alarms

Th BSI Kitemark is available for Carbon Monoxide detectors and is well recognized by consumers, the Fire Services and specifiers as a mark of quality. The two main standards for these products are BS EN 50291-1 (Electrical apparatus for the detection of carbon monoxide in domestic premises) and BS EN 50291-2 (Electrical apparatus for continuous operation in fixed installation in recreational vehicles).

Get in touch today and find out more

Call: **+44 (0)345 0765 606**

Email: **product.certification@bsigroup.com**

Visit: **bsigroup.com/kitemark**

Why BSI?

By Royal Charter

BSI has been developing world-leading standards for over 100 years and continues to break new ground. Our blend of heritage and newness makes us unique – we are the only organization that can offer such a powerful combination of innovation and international reach.

We work closely with leading manufacturers to ensure their products meet the latest regulations to gain market access. We focus to delivering a testing and certification partnership underpinned by quality, safety, reliability, and accuracy aligned to your product development requirements. That's why we're best placed to help you understand standards and to meet the requirements.

At BSI we share knowledge, innovation, and best practice to help people and organizations realize their potential. We are client-centric, agile, and collaborative.

BSI: Inspiring trust for a more resilient world.

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