

BICYCLES

DON'T TAKE THE RISK. SGS CAN SUPPORT THE SAFETY AND QUALITY OF YOUR BICYCLES.



Bicycles and bicycle mobility are playing an important role in the protection of the environment, making the bicycle industry a booming industry. The cycling environment is changing and it is then essential to understand the impact of the safety requirements and regulations. SGS has global expertise and resources to help you test to the latest standards and enhance the safety, quality and performance compliance of your bicycles (individual parts as well as the product as a whole). SGS can support the protection of your brand image by the range of services offered.

MEET INTERNATIONAL STANDARDS

LEGAL REQUIREMENTS

- ISO 4210, ISO 8098
- America: ANSI Z315.1, CPSC 1512 (16 CFR 1512), ASTM F 1975, ASTM F 2273
- Australia: AS /NZS 1927, AS /NZS 8124
- Japan: JIS D9301, JIS D9302, CP5A0052
- Europe:
 - EN 14764, EN 14766, EN 14781, EN 14872 have been published under the GPSD. (EN 14765 for children's bicycle: not published in the OJ in July 2008)
 - EN 71-1 for toy bicycles
 - EN 15194 for Electrically Power Assisted Cycle (EPAC)
 - National regulations including BS 6102, NF R30-020, DIN 79100, DIN 79105, GB 14747, GB 14746

ASSOCIATED REQUIREMENTS

There are "bolt-on" requirements that are only used for the country of sale (environmental or local laws). E.g.: Requirements for assembly instructions, brake set up and the need for an appropriate bell and lighting.

PRODUCTS COVERED

SGS performs tests on all types of bicycles:

- City /trekking bicycle
- Mountain bicycle
- Racing bicycle
- Children's bicycle
- Electrically Power Assisted Cycle (EPAC)

ONE-STOP-SHOP SAFETY AND QUALITY ASSURANCE SERVICES

1. MECHANICAL /PHYSICAL TESTS

- Static, impact and fatigue test
- Strength and loading test
- Brake heat-resistance test
- Stability
- Vibration test (frame and handle bar)
- Energy absorption test (frame and front fork)
- Tensile test
- Rotational accuracy

2. CHEMICAL TESTS

- Determination of heavy metals (Lead, Cadmium, Chromium VI)
- Morphology analysis
- Determination of phthalates (plasticized materials)
- Restriction of PAH (Germany)

3. SPECIFIC TESTS FOR ELECTRICAL COMPLIANCE (FOR EPAC)

- Water /Dust Proof Test IP
- Electromagnetic Compatibility (EMC Directive)



SGS IS COMMITTED TO OFFERING **QUALITY ASSURANCE** TO THE BICYCLE INDUSTRY.

WHY CHOOSE **SGS?**

REPUTATION

The SGS Group is the global leader and innovator in inspection, verification, testing and certification services.

Partnership with SGS brings increased value to your products and process, and ultimately paves the way for success in the marketplace.

GLOBAL NETWORK

With more than 53'000 employees, SGS operates a network of over 1'000 offices and laboratories around the world.

SGS can provide you with one-stop full solution to ensure your compliance to international markets.

Our laboratories in China (Shanghai, Guangzhou) and Taiwan can conduct all required tests for bicycles compliance.

GLOBAL CAPABILITIES

SGS is the supplier of choice with comprehensive customised services at each stage of the process: advanced testing, inspection, auditing and consultancy services.

GLOBAL EXPERTISE

SGS specialists offer customers technical expertise. They are constantly evaluating market trends to best serve clients.

SGS RELATED **SERVICES**

SGS offers a range of added-value services associated with bicycles, including assistance with:

- Technical documentation
- Warning advice
- Manufacturer's instructions
- Marking
- Inspection
- Audit
- Standards & Regulations Services (SRS)
 - SGS helps you market your products worldwide and investigates product requirements in each national state.
- Product Integrity Engineering services (PIE), including Feasibility Review, Product Risk Assessment, Product Line Review and Test Protocol.

FOCUS ON BICYCLE **HELMETS**

Do you know that head injuries account for 75% of all deaths from bicycle injuries? Protective helmets are the single most effective ways of preventing these injuries. SGS offers specific helmets testing services, ensuring regulatory compliance against American, Australian, Canadian, Japanese, European and British standards.

As one of the Notified Bodies of 89/686/EEC, SGS United Kingdom can provide EC Type Examination to bicycle helmets (CE Mark Certification for the European market).

SGS tests other accessories for bicycles, including back-packs, luggage carriers (EN 14872). SGS has also expertise and testing capabilities for a wide range of sporting goods, including trampolines, roller skates, inline skates, gymnastic, volleyball equipment.



CONTACT

For further details, please contact consumer.products@sgs.com or your usual SGS contact.