

REDUCE BICYCLE AND COMPONENT FAILURES WITH SGS TESTING SERVICES



To enhance the safety of bicycles sold in Europe and in USA safety requirements have been strengthened in the past years. In the US, the CPSC has required third-party testing to certify CPSIA compliance for lead in surface coatings for children's bicycle products since December 2008. Recent changes for the EU market include the new CEN bicycle standard in 2005 and new EN 15194 standard in 2009.

Armed with strong expertise in chemical and physical testing for bicycles, SGS can help you verify compliance of your bicycles (individual parts as well as the fully assembled bicycles) with these new standards.

STANDARDS FOR BIKES

USA

- CPSIA
- 16 CFR 1512, ANSI Z315.1, ASTM F 1975, ASTM F 2273

EUROPE

- General Product Safety Directive 2001/95/EC
- EN 14764, EN 14766, EN 14781, EN 14872, EN 15194, EN 14765
- National regulations applicable in the EU countries: DIN 79100, DIN 79105 in Germany; NF R30-020 in France, BS 6102 in United Kingdom, etc
- REACH

AND ALSO

- ISO 4210, ISO 8098
- Japan: JIS D9301, JIS D9302, CPSA0052
- Australia: AS /Nzs 1927, AS /Nzs 8124

PRODUCTS COVERED

Our laboratories are equipped to test all bicycles:

- City and trekking bicycles
- Mountain bicycles
- Racing bicycles
- Bicycles for young children
- Electrically power assisted cycles



ADVANTAGES OF USING SGS

SGS Consumer Testing Services, a division of the SGS Group, is the world's leading verification, testing and certification company.

GLOBAL NETWORK AND EXPERTISE

SGS China, Taiwan and US facilities offer a full range of bicycle and bicycle related testing services covering everything from raw materials to fully assembled bicycles. SGS performs both chemical and physical testing to confirm compliance with manufacturers' requirements as well as regulatory standards in US, Europe, Japan and Australia.

Our team of engineers and technologists is professional and highly experienced in the fields of bike testing, failure analysis and quality evaluation.

CPSIA testing in China and Taiwan

SGS has 26 CPSIA-certified labs around the world, including multiple facilities in China (SGS Shanghai, SGS Tianjin) and Taiwan (Taipei) that routinely test bicycles, helmets and other bicycle products. SGS Fairfield, NJ is accredited for helmet testing and SGS Guangzhou, China is in the process of becoming accredited for bicycle testing. For current status visit www.hardlines.sgs.com/cpsia.

SGS can assist in developing a plan to ensure that bicycle products meet both the new standards and have the third-party documentation required to support compliance certification. Broad coverage and availability of testing near the source of manufacture will help ensure rapid turnaround for SGS clients.

SGS HELPS ENHANCE **QUALITY, PERFORMANCE AND SAFETY** OF BICYCLES AND BICYCLE ACCESSORIES

BICYCLE SERVICES BY SGS

SGS provides customized and high-quality testing programs:

MECHANICAL /PHYSICAL TESTS

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

CHEMICAL TESTS

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

ELECTRICAL TESTS (EPAC)

- Water /Dust Proof Test IP
- Electrical and Battery Safety
- Electromagnetic Compatibility (EMC Directive)

ADDED-VALUE SERVICES

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

- Technical documentation
- Warning advice
- Manufacturer's instructions
- Marking
- Inspection
- Audit
- Standards and regulations
- Risk assessment

CONTACT US

For further information about our full range of service offering contact us via e-mail at consumer.products@sgs.com



FOCUS ON BICYCLE HELMETS

SGS also offers bike helmet testing services for the purpose of ensuring regulatory compliance against American, Australian, Canadian, Japanese, European and British standards.

US CPSIA /16 CFR 1203

SGS provides third-party physical, mechanical and chemical testing of children's bicycle helmets, as now required by the CPSIA, in our accredited and CPSC approved laboratories in the U.S., China and Taiwan.

Approved SGS labs in Guangzhou and Taiwan enable helmets to be tested near the point of manufacture, while SGS's Fairfield, NJ lab provides a domestic testing resource for U.S. importers, private labelers and retailers. Test reports issued by these SGS labs can be used to support CPSIA mandated General Conformity Certifications (GCCs) for children's helmets.

Third-party testing and certification of total lead content in children's bicycle helmet substrate materials has been deferred by CPSC 'Stay of Enforcement' until February 10, 2011. Helmet materials must still meet the current 300 ppm total lead threshold but GCCs can be based on in-house testing and self-certification by the importer or manufacturer until that date.

The limit of 90 ppm for lead content in scrapeable paints and surface coatings used on children's products is mandatory for all helmets sold after August 14, 2009 and is not affected by the 'stay of enforcement' for substrate materials.

EU CE MARK CERTIFICATION

As one of the Notified Bodies of the PPE Directive 89/686/EEC (Personal Protective Equipment), SGS United Kingdom can provide EC Type Examination to bicycle helmets (CE Mark). SGS China (Guangzhou) and SGS Taiwan cooperate with SGS United Kingdom to provide reliable compliance solutions from testing, technical file preparation to EC Type Examination.