Green Product Testing & Certification.
We help you be green compliant.
The most comprehensive green compliance package goes to work for you.

Now manufacturers can effectively:

• Manage compliance strategy and risks
• Ensure requirements are properly applied and met for your products
• Educate your employees on obligations and requirements
• Develop and sustain a competitive advantage
• Protect your brand

**Testing (Chemical, Destructive, Nondestructive, Mechanical)**

Nondestructive Testing:
• X-ray fluorescence spectrometry
• Pre-screening for RoHS, CPSC, and others
• Recycling manuals

**Chemical Analysis:**
• Identification & quantification of substances in materials
• GC/MS, ICP/AES, VOC, and others
• Toys, electronics, consumer products, textiles, packaging, others

**Data Collection (BoM Scrubbing, BoM Analysis, Collection of RoHS, REACH, SVHCs, CPSC, JIGA/B, Global Custom)**

**Provides BoM Analysis for Clients:**
• Duplicate parts
• End-of-life parts
• Amount of data that can be collected
• Status of suppliers

**Data Collection Services to Feed our Compliance Platform:**
• Full material compliance
• RoHS, CPSC, CA Prop 65, REACH SVHCs, and others
• Recycled content and mass of part number, etc.

**Training & Certification (RoHS/WEEE, REACH, TOYS, Eco Design, Others)**

Training & Seminars:
• Global environmental legislation
• Supplier awareness
• OEM responsibilities
• Available services
1) GREEN IMPACT REPORT

RATE: $2,500*

TUV Rheinland will visit your site for a full day and provide the following essential services for your products:

• Two hours of education for your team on RoHS2, REACH, WEEE, and other environmental issues
• We will provide a comprehensive "RoHS2 Health Report" for your products and identify any gaps that need to be fixed
• We will do a REACH SVHC Risk Assessment on 1 or 2 of your products. The deliverable is a detailed impact report.

Restriction of Hazardous Substances (RoHS) Regulations and Compliance Assurance Services

Complete product level due diligence documentation for RoHS enforcement agencies EU RoHS Directive compliance is mandatory for continued sales of electronics and electrical equipment to the EU. Manufacturers are responsible for providing specific information and documentation on demand to RoHS enforcement agencies to prove they have complied with RoHS Regulations.

REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals): We can help you to determine the REACH content of SVHC (Substances of Very High Concern) in your products. This can be done through physical chemical testing or through our compliance platform software solution.

Without the proper measures and documentation a manufacturer is exposed to sanctions from these enforcement agencies including blocked shipments, blocked sales and negative brand perceptions, due to a lack of due diligence.

2) BOM (BILL OF MATERIALS) PROOF

RATE: $500*

TUV Rheinland will conduct a BoM Scrub on one of your products and give you a report on how much data we have on your parts that meet compliance. The BoM is a list of the raw materials, sub-assemblies, intermediate assemblies, sub-components, components, parts and the quantities of each needed to manufacture an end product. It may be used for communication between manufacturing partners, or confined to a single manufacturing plant.

TUV Rheinland specializes in converting the Bill of Materials (BoM) of your electrical and electronic products into a RoHS compliant state, including consolidation of all supporting documentation, as part of your due diligence activities. We will give you access to a comprehensive range of Bill of Material data gathering and assessment services for RoHS regulations and expanding electronics environmental requirements.

• Our services and expertise allow you to overcome the challenges presented by emerging environmental regulations.
• Eliminate inefficient and expensive scrap errors
• Manage product costs early in the development cycle to achieve margin targets

* While we make every effort to provide you with the most accurate, up-to-date prices, these quotes are estimates which are an approximation of cost for the work performed. Changes during the course of a job may affect cost. We reserve the right to change our rates at any time without further notice.
3) TUV RHEINLAND ROHS COMPLIANCE CHECK

RATE: Based on the complexity of the equipment

TUV Rheinland will perform a nondestructive assessment of your product and follow up with chemical analysis confirmation. The idea is that you are not satisfied with data collection only so testing and confirmation ensures due-diligence and compliance and gives you Peace-of-Mind.

These Services Include:

- Audit report and gap-analysis
- Creation of a template for a RoHS Due Diligence Document
- Summary of training, operations, quality, data, and procurement systems
- Recommendations & procedure updates related to RoHS
- Document retrieval from standard component databases and systems
- Application for creation of due diligence reports
- Electronic & hard copy document creation

Consulting Services (can be billed separately, depending on need)

- Scheduled conference calls to review impact of regulatory information and industry practices
- Regulatory and research Q&A style consulting support (as needed)

4) ROHS XRF SCREENING & SERVICES

RATE: Based on the complexity of the equipment

TUV Rheinland will conduct XRF screening and services.

Manufacturers of electrical and electronic equipment need to ensure that their products, parts, and components comply with the RoHS Directive in order to be distributed and sold in the EU. RoHS XRF screening is a cost effective method to determine compliance levels in products and parts. After completion of the check using the XRF analyzer, preliminary findings are provided to the client via email and a complete XRF screening report is issued within days — offering clients a fast, effective, and low cost method for screening their products with no complicated chemical preparation needed.

Bench-top XRF for Nondestructive Testing

The X-Ray Fluorescence Analysis can be used as a pre-screening method for compliance as it focuses primarily on the parts of a product with the highest risk of containing RoHS substances and can identify the presence of these substances in their elemental form at high output, minimal or no sample preparation, and by a wide, dynamic range of measured concentrations.

The number of check and data points determined will be directly related to both the size and complexity of the product itself.

Portable Onsite RoHS XRF Screening

TUV Rheinland also offers onsite XRF screening and inspection services, with real time manufacturing and shipment verifications, using a state-of-the-art portable XRF analyzer. A trained engineer will visit your company and use a handheld XRF analyzer to check for the following four levels for RoHS conformity assessment:

- External components and materials such as casing, plastic parts, etc.
- Sub-assembly parts such as PCBA
- Other parts internal to the product such as switches, wire, connectors, etc.
- Accessory parts such as cable wire, adaptors, etc.

www.tuv.com/us/green-solutions
Sustainable technology today.
For a better environment tomorrow.

**Styles of Training & Seminars**
- OEM on-site detailed presentations
- Seminars/roundtables
- Webinars/meetings/sessions
- White papers

**Eco Design (ErP Directive, ENERGY STAR, IEEE 1680 (EPEAT), Life Cycle Assessment, CO2, LCI, GHG, EPD, Seebalance)**

**Compliance Platform (Compliance software, reports, supplier interface, BoM management)**
- BoM management
- Version/revision control
- Data consistency & integrity
- Supplier collaboration
- Compliance analysis
- Complete audit/trail/history

**Recycling (Zero Landfill, Data/Brand Security, Global Tracking, Asset Recovery, OEM Take-back, Charity Donations)**
- Zero landfill (end-of-life)
- Electronic recycling and shredding
- Material tracking CRM software
- Data and brand security
- Global logistics
- Asset recovery
- WEEE/RoHS consulting services

**Green Product Certification**

The Green Product Certification by TUV Rheinland is a voluntary test mark for consumer goods that helps consumers and buyers make informed choices in the overcrowded market. It reliably identifies safe, green and sustainable products.

Which consumer goods can be certified?

- Office equipment
- Household appliances
- Leisure and sporting equipment
- Furniture
- Soft goods, shoes, etc.

Founded in 1872, TÜV Rheinland is a global leader in independent testing, inspection, and certification services, ensuring quality and safety for people, the environment and technology in nearly all aspects of life. The company maintains a presence in 500 locations spanning 61 countries, employs 16,000 people and has an annual revenue of $1.9 billion. TÜV Rheinland inspects technical equipment, products and services, oversees projects and helps to shape processes for a wide variety of companies through its worldwide network of approved labs, testing facilities and education centers.

Contact Us

1-888-743-4652  ■  info@tuv.com  ■  www.tuv.com

North America Locations

**United States**
- Austin, TX
- Bentonville, AR
- Birmingham, AL
- Boston, MA
- Boxborough, MA
- Carlsbad, CA
- Chicago, IL
- Detroit, MI
- Flint, MI
- Grand Rapids, MI
- Houston, TX
- Newtown, CT
- Pittsburgh, PA
- Pleasanton, CA
- Portland, OR
- Raleigh, NC
- Rochester, NY
- Santa Clara, CA
- Tempe, AZ

**Canada**
- Toronto

**Mexico**
- Guadalajara
- Mexico City
- Monterrey