



IS YOUR PRODUCT RoHS COMPLIANT?

EU RoHS DIRECTIVE

Known as Directive 2002/95/EC and in force since 1st July 2006, it's purpose is very clear, to restrict the use of six substances within electrical and electronic equipment (EEE).

USA & ASIA PACIFIC

Different RoHS requirements in the USA and Asia Pacific are already in force or will come into force. These different requirements compared to the EU RoHS Directive can sometimes differ; due to this our RoHS experts would be glad to answer your questions. They ensure your RoHS testing and certification runs smoothly and take your products securely through the market.

RESTRICTED SUBSTANCES

- Cadmium
- Mercury
- Lead
- Hexavalent Chromium

- Polybrominated biphenyls (PBB)
- Polybrominated diphenyl-ethers (PBDE)

OPTIONS

- X-ray fluorescent analysis (XRF) as screening of complex finished products
 - Testing of lead, cadmium and mercury, as requested by RoHS directive
 - Testing of Cr (total) and bromine (Br) as lead compounds for the banned substances chromium (VI) and PBB/PBDE
- Wet-chemical analysis
 - on the homogeneous substance level
 - specific verification of the banned substances
- Combination XRF screening and wet-chemical validation of conspicuous findings.

HOW ARE THE TESTS CARRIED OUT?

RoHS XRF-SCREENING

With complex products the qualified selection of the test points is decisive. Another necessity is the systematic dismantling of the product in order to achieve approximation to the homogeneous substance. The actual test is carried out according to the draft method IEC 62321, for compliance tests against other requirements please ask our experts.

The analytical findings of the specimen are classified in the following categories in the analytical report: OL (over limit), BL (below limit) and X (inconclusive, further investigations necessary).

WET-CHEMICAL TESTING

If required we carry out wet-chemical tests on homogeneous substances to assess RoHS conformity.

SGS

OUR RoHS PRODUCT PORTFOLIO

Service from a single source from the globally leading analytics service provider in the field of RoHS certification and testing:



- RoHS certification programme for Manufacturers
- Modular RoHS concept for retailer/importer
- Verify documents furnishing evidence of RoHS conformity in the supply chain
- Worldwide consulting services in all aspects of RoHS and WEEE
- Chemical conformity tests on lead, mercury, cadmium, chromium (VI), flame retardants (PBB, PBDE)
- XRF screening of complex finished products
- In-house testing of warehouse stocks
- Issue of internationally recognised certificates & expertise

HOW DETAILED ARE PRODUCTS SUPPOSED TO BE TESTED?

Depending on the remit we develop suggestions for testing your products. The following table provides an overview of the options for RoHS testing - from the roughly orientating overview analysis to the detailed examination on the basis of homogeneous substances.

	XRF SCREENING (OVERVIEW)	XRF SCREENING IN DETAIL	COMBINATION XRF SCREENING+ WET CHEMICAL ANALYSIS	WET CHEMICAL ANALYSIS
PREPARATION FOR MEASURING	no or simple dismantling	detailed dismantling	detailed dismantling, wet-chemical analysis, if required	Analysis at homogeneous material level, wet-chemical disintegration
DESTRUCTION OF THE SAMPLE	-	+	+	+
EFFORT	+	+ / ++	++	+++
RESULT RELIABILITY	overview analysis	overview analysis	often sufficient, depending on number of test points	greatest possible security of the four analysis
RECOMMENDED FOR	warehouse stock, incoming goods inspection	simple modules and devices, components	complex products	RoHS assessment for individual homogeneous materials
EXAMPLES	CD in cables, solder on PCBs	plugs, cable looms, ICs on PCBs	complex products, DVD players	homogeneous materials in production or after preparation from terminals

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WHEN YOU NEED TO BE SURE

