

## SERIES OF IEC 62321: 2013 STANDARDS PUBLISHED

In 2008, the International Electrotechnical Commission (IEC) published the six kinds of regulated substances (lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) in electrical and electronic products about a concentration measurement with international standards IEC 62321: 2008. It provides an harmonized standard to the regulated substances testing of the electrical and electronic products, and promotes vigorously to the global electronics industry on RoHS compliance.



In order to better adapt to RoHS requirements of the electrical and electronics industry, IEC has been committed to the revision of current standards in recent years.

In June 2013, the latest 2013 version of IEC 62321-1, -2, -3-1, -3-2, -4 and -5 are firstly released. Compared with the 2008 version of the standard, the changes in the 2013 edition mainly include the separation of standard into individual documents, and the test equipment combustion ion chromatography (C-IC) and cold vapor atomic fluorescence spectrometry (CV-AFS) have been introduced (see Table 1).

Table 1: The 2013 edition of IEC 62321-1 to -5 standard

IEC Standard	Scope
62321-1	Determination of certain substances in electrotechnical products - Part 1: Introduction and overview
62321-2	Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation
62321-3-1	Determination of certain substances in electrotechnical products - Part 3-1: Screening electrotechnical products for lead, mercury, cadmium, total chromium and total bromine using X-ray Fluorescence Spectrometry.
62321-3-2	Determination of certain substances in electrotechnical products - Part 3-2: Screening of total bromine in electric and electronic products by combustion-ion chromatography (C-IC)
62321-4	Determination of certain substances in electrotechnical products - Part 4: Mercury by CV-AAS, CV-AFS, ICP-OES and ICP-MS
62321-5	Determination of certain substances in electrotechnical products - Part 5: Determination of cadmium, lead, and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS

Completing the set of standards mentioned above there are four additional standards in different draft stages under preparation to provide test methods for PBB/PBDE (IEC 62321-6), hexavalent chromium (IEC 62321-7-1 and -2) and phthalates (IEC 62321-8). It is expected that those standards will be published sequentially in the next two years.

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