

On 27. January 2003 the European Parliament and the Council of the European Union passed the two EG guidelines 2002/95/EG - RoHS (Restriction of Hazardous Substances) and 2002/96/EG - WEEE (Waste of Electrical and Electronic Equipment).

The conversion of both EG guidelines into German national law took place in German Parliament on 26. March 2005, with the passing of the law in regard to the introduction, the taking back and the ecologically tolerable disposal of Electrical and Electronic Units (Abbreviation of the German law: „ElektroG“).

This law lays down demands and product responsibility for Electrical and Electronic Units. It's main purpose is the avoidance of waste from Electrical and Electronic Units and, furthermore, the recycling, the usage of the substance and other types of usage of such waste, to reduce the amount of waste, which must be disposed of, as well as to reduce the percentage of hazardous substances deriving from Electrical and Electronic Units.

Accordingly, on 1. July 2006 substance prohibitions for Lead, Mercury, Cadmium, 6x Chromium, polybromic Biphenyl (PBB) and polybromic Diphenylether (PBDE) for newly introduced Electrical and Electronic Units became effective.

Because, however, a complete avoidance of heavy metals and bromide flame-retarding substances could not be achieved, then the following highest concentration values are tolerated. r

- > 0.1 percent in weight (= 1.000 ppm) pro homogenised material for:
  - Lead
  - Mercury
  - 6x Chromium
  - polybromic Biphenyl (PBB)
  - polybromic Diphenylether (PBDE)
- > 0.01 percent in weight (= 100 ppm) pro homogenised material for:
  - Cadmium

In addition, in the attachment of the EG-guideline 2002/95/EG the exempted applications were defined. Among other, the usage of Lead as an alloy with the following highest concentrations is allowed:

- > 0.35 percent in weight (= 3.500 ppm) for:
  - Lead as an alloy in Steel
- > 0.40 percent in weight (= 4.000 ppm) for:
  - Lead as an alloy in Aluminium
- > 4.00 percent in weight (= 40.000 ppm) for:
  - Lead as an alloy in Copper

## ElektroG - RoHS and WEEE

ingun Prüfmittelbau GmbH  
 Max-Stromeyer-Straße 162  
 78467 Konstanz  
 Germany

Tel. +49 7531 8105-0  
 Fax +49 7531 8105-65  
 info@ingun.com  
 www.ingun.com

The company INGUN Prüfmittelbau GmbH, being a manufacturer of Test Equipment to test Printed Circuit Boards (PCBs), does not supply or manufacturer Electrical and Electronic Units in accordance to the definition of the ElektroG laws – but actually passive components, e.g. spring-loaded Test Probes and applicable Contacting Systems (Test Fixtures).

However, INGUN is constantly keen to supply ecologically tolerable products to their customers in accordance to the applicable rulings.

To our knowledge, our supplied products within the business division of „Test Probes“ do not contain substances in such a concentration or application, which are forbidden in accordance to the guideline 2002/95/EG (RoHS) and the German national conversion of the ElektroG law. As long as these products are used in units, which fall under the application area of the ElektroG law, then we see no hindrance to introduce the customer end-units onto the market. (\*)

As shown in the following overview, the allowed highest values of concentration in the case of all materials used for INGUN Test Probes are never exceeded.

### Lead as an alloy in Steel

	Plunger	Spring	Barrel	Receptacle
Steel	max. 0,3 %	0 %	-	-
Stainless Steel	-	0 %	-	-

### Lead as an alloy in Copper

	Plunger	Spring	Barrel	Receptacle
CuBe	max. 0,6 %	-	-	-
Bronze	-	-	max. 0,05 %	max. 0,05 %
New Silver (NiAg)	-	-	max. 3 %	max. 3 %
Brass	max. 3 %	-	max. 3 %	max. 3 %

In regard to recycling of the components in the manufacturing cycle, INGUN offers their customers to take back and scrap used Test Probes and Receptacles free of charge. It must only be ensured that no third-party products are included in the parts returned.

INGUN Prüfmittelbau GmbH

Konstanz, im May 2008



The Management

\*: An exception is the pre-wired Receptacles, which can be manufactured in accordance to the RoHS-guideline on request.