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Sitz der Gesellschaft:
Leverkusen
Eintragung: Amtsgericht Köln
HR A 20833

2009-05-20

Certificate of Analysis

Sample:	PCD (center) with concentric hard metal ring
Part / Batch / Lot:	MANT R7040
Customer-Material-no.:	
Trade name:	
Origin:	Kiwus GmbH

The sample¹⁾ received was tested by X-ray fluorescence analysis in a DIN EN ISO/IEC 17025 compliant laboratory. Contents of substances for which maximum concentration values are stated in the RoHS directive of the European Union (2002/95/EU) of 2003-01-27, in the modification of this directive (2005/618/EU) of 2005-08-18 and in the Elektro- und Elektronikgerätegesetz (ElektroG) of the Federal Republic of Germany of 2005-03-16 are as follows:

Substance	Content [mg/kg]	LOQ ²⁾	Limit (RoHS) / mg/kg	RoHS compliant
Cadmium (Cd)	<10	<10	100	yes
Lead (Pb)	<100	<100	1000	yes
Chrome (Cr) total ³⁾	<300	<300	no limit	n.a. ⁶⁾
Chrome (Cr) hexavalent ⁴⁾	n.a. ⁶⁾	<300	1000	yes
Mercury (Hg)	<300	<300	1000	yes
Bromine (Br)	<30	<30	no limit	n.a. ⁶⁾
PBB/PBDE ⁵⁾	n.a. ⁶⁾	<300	1000	yes

The sample is RoHS compliant.

- 1) It is assumed that the sample is present as a homogeneous material.
- 2) All data given in mg/kg; the limit of quantification (LOQ) corresponds to the threefold of the limit of detection (LOD)
- 3) It is assumed that hexavalent chrome is not present in metallic samples (compare also recommendations of the IEC, International Electrotechnical Commission).
- 4) UV-VIS-spectrophotometry (diphenylcarbide method); the content of hexavalent chrome is less than or equal to the total content of chrome.
- 5) The content of bromine is used as the basis for the calculation of the content of PBB / PBDE (total of polybrominated biphenyls and polybrominated diphenylethers).
The maximum content of PBB / PBDE will be about three times the content of bromine (as derived from monobrominated biphenyl or diphenylether).
- 6) „not analyzed“ or „not applicable“, respectively


Dr. Johannes Schweer



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