TELENE SAS
4, Rue Marie Curie
59910 Bondues - France
www.telene.com
info@telene.com

Compliance to RoHs directive

Ref : VA – WM – 2015/02

Analysis Report N° IAC-R06-0093
(Intertek Analyses Chalon)

Tests carried out: screening by X-ray fluorescence spectrometry within the framework of European directive 2002/95/CE relating to the restriction of the dangerous substances (RoHs) in the electric and electronic components. The equipment used is a wavelength dispersive X-ray fluorescence spectrometer. The analysis is semi quantitative, so for measurements being located in the zone of no conclusive results (see analysis specifications), it is advised to make a quantitative analysis by:
- ICP for heavy metals Cd, Hg and Pb
- GC/MS for polybrominated biphenyls (PBBs) and diphenyl ethers (PBDEs)
- UV-Vis for hexavalent chromium (Cr6+)

Results

Br	Cd	Cr	Hg	Pb
< 30 ppm	< 30 ppm	< 30 ppm	< 30 ppm	< 30 ppm

Analysis specifications

Because of the analysis precision by X-ray fluorescence spectrometry, for each element, a zone of no conclusive results exists and doesn't allow deciding compared to the limits of European directive 2002/95/CE.
The limits of this zone are given in the table below

	Limits of RoHs directive (ppm)	Zone of no conclusive results (ppm)	Limits of detections (ppm)
Br	1000	200 to 1800	30
Cd	100	50 to 150	30
Cr	1000	500 to 1500	30
Hg	1000	500 to 1500	30
Pb	1000	500 to 1500	30