

## Customer Information

Valid 07/2022

### RoHS Directive 2011/65/EU of the European Parliament and of the Council

This Directive lays down rules on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of waste EEE.

Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials:

- Lead (0,1 %)
- Mercury (0,1 %)
- Cadmium (0,01 %)
- Hexavalent chromium (0,1 %)
- Polybrominated biphenyls (PBB) (0,1 %)
- Polybrominated diphenyl ethers (PBDE) (0,1%)
- Bis(2-ethylhexyl) phthalate (DEHP) (0,1 %)
- Butyl benzyl phthalate (BBP) (0,1 %)
- Dibutyl phthalate (DBP) (0,1 %)
- Diisobutyl phthalate (DIBP) (0,1 %)

### RoHS Conformity

Wolfram Bergbau und Hütten AG produces tungsten oxide, tungsten metal powder and tungsten carbide powder. None of the restricted hazardous substances are knowingly added to our products. Traces of cadmium (Cd), lead (Pb) and mercury (Hg) can occur in these products.

The presence of Hexavalent Chromium (Cr<sup>6+</sup>) and the organic substances (PBB, PBDE, DEHP, BBP, DBP and DIBP) can be excluded due to the production process.

All our products are compliant with EU RoHS Directive based on our analytical results:

Restricted hazardous substance	RoHS limit [ppm]	Wolfram analysis [ppm]	Dedection limit [ppm]	Analysis method
Cadmium (Cd)	100	<1	<0.1	ICP-MS
Lead (Pb)	1000	<1	<0.1	ICP-MS
Mercury (Hg)	1000	<1	<0.1	ICP-MS



**Helmut Kratzer**

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