

## Engineered Ceramics China Ltd. RoHS Compliance Statement

Engineered Ceramics China Ltd.

(Engineered Ceramics China Ltd.) makes no stand-alone electronic or electrical products but is proud to be a subcontractor of ceramics used in electronic and electrical products. Engineered Ceramics China Ltd. has been asked by numerous customers to confirm that our ceramics are RoHS Compliant.

After a complete bi-annual review of the materials used in our parts and the manufacturing process, we can advise you, our customers, that Engineered Ceramics China Ltd. is RoHS & RoHS 3 compliant.

**January 24, 2024**

RoHS stands for Restriction of Hazardous Substances and impacts the entire electronics industry and many electrical products as well. The original RoHS, also known as Directive 2002/95/EC, originated in the European Union in 2002 and restricts the use of six hazardous materials found in electrical and electronic products. All applicable products in the EU market from July 1, 2006, must pass RoHS compliance.

Directive 2011/65/EU was published in 2011 by the EU, which is known as RoHS-Recast or RoHS 2. RoHS 2 includes a CE-marking directive, with RoHS compliance now being required for CE marking of products. RoHS 2 also added Categories 8 and 9 and has additional compliance recordkeeping requirements.

Directive 2015/863 is known as RoHS 3. RoHS 3 adds four additional restricted substances (phthalates) to the list of six.

EU RoHS specifies maximum levels for the following 10 restricted substances. The first six applied to the original RoHS while the last four were added under RoHS 3, which took effect July 22, 2019.

- **Cadmium (Cd):** < 100 ppm
- **Lead (Pb):** < 1000 ppm
- **Mercury (Hg):** < 1000 ppm
- **Hexavalent Chromium: (Cr VI)** < 1000 ppm
- **Polybrominated Biphenyls (PBB):** < 1000 ppm
- **Polybrominated Diphenyl Ethers (PBDE):** < 1000 ppm
- **Bis(2-Ethylhexyl) phthalate (DEHP):** < 1000 ppm
- **Benzyl butyl phthalate (BBP):** < 1000 ppm
- **Dibutyl phthalate (DBP):** < 1000 ppm
- **Diisobutyl phthalate (DIBP):** < 1000 ppm

RoHS 3 (EU Directive 2015/863) adds Category 11 (catch-all) products and adds four new restricted substances. Phthalates are mainly used as insulation plasticizers and are on the REACH list of SVHC (Substances of Very High Concern). The expanded list for RoHS 3 is thus as follows:

- **Cadmium (0.01 %)**
- **Lead (0.1 %)**
- **Mercury (0.1 %)**
- **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 %)

### **Engineered Ceramics China Ltd. Reach Compliance Statement**

Engineered Ceramics China Ltd. makes ceramics, and sells no chemical substances, but is a supplier to EU companies and companies supplying into the EU. Engineered Ceramics China Ltd. has been asked by numerous customers to confirm that our ceramics are Reach Compliant.

Engineered Ceramics China Ltd. supports the goals of REACH, which are consistent with our own commitment to promote the responsible manufacturing, use, and handling of chemicals. After a complete bi-annual review of the materials used in our parts and the manufacturing process, we can advise you, our customers, that Engineered Ceramics China Ltd. is Reach compliant to the 240 substances now on the ECHA list.

<https://echa.europa.eu/candidate-list-table>

January 24, 2024

#### Understanding REACH

REACH is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals.

REACH places the burden of proof on companies. To comply with the regulation, companies must identify and manage the risks linked to the substances they manufacture and market in the EU.

REACH stands for Registration, Evaluation, Authorization and Restriction of Chemicals. It entered into force on 1 June 2007.