

RoHS and WEEE Compliance

AGC is committed to designing and manufacturing materials which are considered safe with respect to environmental and human health issues. AGC recognizes the importance of the European Union Directives; Waste Electrical and Electronic Equipment (WEEE)[†] and the Restriction of Hazardous Substances (RoHS)[‡]. AGC ensures that the design and manufacturing of our products take into account the dismantling and recovery of WEEE and its components and materials.

Article 4 of DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) states:

1. Member States shall ensure that EEE placed on the market, including cables and spare parts for its repair, its reuse, updating of its functionalities or upgrading of its capacity, does not contain the substances listed in Annex II.
2. Furthermore, in RoHS 2.0: the restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments from 22 July, 2021
3. ANNEX II was updated to include DEHP, BBP, DBP and DIBP.

ANNEX II

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 %)

This letter certifies that all AGC Multi Material prepreg and laminates comply with RoHS. They are not manufactured with, and are not expected to contain, the following substances:

Lead	CAS# 7439-92-1
Mercury	CAS# 7439-97-6
Cadmium	CAS# 7440-43-9
Hexavalent chromium	CAS# 18540-29-9
Polybrominated biphenyls (PBB) (Including HEXA, OCTA and DECA BB)	CAS# 36355-01-8 CAS# 27858-07-7 CAS# 13654-09-6
Polybrominated diphenyl ethers (PBDE) (Including PENTA, OCTA and DECA BDE)	CAS# 32534-81-9 CAS# 32536-52-0 CAS# 1163-19-5
Bis(2-ethylhexyl) phthalate (DEHP)	CAS # 117-81-7
Butyl benzyl phthalate (BBP)	CAS# 85-68-7
Dibutyl phthalate (DBP)	CAS# 84-74-2
Diisobutyl phthalate (DIBP)	CAS# 84-69-5
Perfluorooctane sulfonates (PFOS)**	CAS# 1763-23-1

† WEEE Directive; 2012/19/EU

‡ RoHS Directive and phthalates Amendment; 2011/65/EU & 2015/863

** EU Directive 2006/122/ECOF

HBCDD is recommended for restriction by the European Commission's "Final Report: Study for the Review of the List of Restricted Substances under RoHS 2", ENV.C.2/ETU/2012/0021, January 2014.

Many of AGC's products are inherently flame-retardant PTFE-based materials. No additional components are added to achieve flame retardation and UL 94 V-0 qualification.

AGC will continue to explore and incorporate environmental responsibility into the design and manufacturing processes of our current and developing product lines.

Sincerely



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