

Certificate of ROHS and REACH Compliance

TAMURA ELSOLD GmbH, Ilsenburg, certifies that, to its knowledge as of the date of this document, the materials listed on page 2 and marked with ✓ or ○:

- a)** ✓ : Comply with the European Union Directive 2011/65/EU ("RoHS II" as well as 2002/95/EC - RoHS Directive and update 2015/863/EU) as they do not contain Cd, Pb, Hg, Cr, PBB, PBDE, DEHP, BBP, DBP and DIBP in concentrations above RoHS Limits.
○ : may be used according to exceptions of European Union Directive 2011/65/EU ("RoHS II" as well as 2002/95/EC - RoHS Directive and update 2015/863/EU) depending on the application
 - b)** ✓ : do not contain substances mentioned on the Candidate List of Substances of Very High Concern for Authorisation (last updated: 19/01/2021 (211 SVHCs); published in accordance with Article 59(10) of the REACH Regulation (1907/2006))
 - c)** ✓ : do not contain substances or are not used for applications restricted by Annex XVII to REACH.
○ : contains substances, for which the use may be possible depending on the application according to Annex XVII to Reach
 - d)** ✓ : do not contain substances mentioned on the list of substances included in Annex XIV of REACH ("Authorisation List") (Commission Regulation (EU) 2020/171, 06-02-20).
 - e)** ✓ : do not contain any PAHs (polycyclic aromatic hydrocarbons) according to REGULATION (EU) No 1272/2013.
 - f)** ✓ : do not contain any POPs according to REGULATION (EU) No 2019/1021.
- x):** Corresponding criterion is not fulfilled by the materials in question

Technical product information about chemical composition and other technical data, may be found on the TAMURA ELSOLD website: www.tamura-elsold.de

The wording of the EU Directives and further information about chemical substances may be found on eur-lex.europa.eu and echa.europa.eu.

This certification is valid only for products placed on the market by TAMURA ELSOLD and is made based on TAMURA ELSOLD's understanding of mentioned European Union Directives and a diligent review of the known and recognized substances contained in each homogeneous material used to produce the listed products.

Ilsenburg, January 2021
Dr.-Ing. Nils Kopp
R & D – Application Support

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General Table of Products

Product Product group		Group or Products Remarks Delivery Form Examples	a) RoHS II 2011/65/EU	b) SVHCs	c) REACH Annex XVII	d) REACH Annex XIV	e) PAHs EU 1272/2013	f) POPs EU 2019/1021
1	Lead-free Solder Alloys	All types Bars, ingots, solid wire, tapes, preforms, clippings, tablets flux-cored wire with any flux type and any flux content Typical alloys are: SnCu, SnAg, SnAgCu, SnBi(Ag), SnP, SN100 MA, SN100 MA-S, SN100Ag MA and SN100Ag MA-S REFILL, REFILL Plus, #287, #251	✓	✓	✓	✓	✓	✓
2	Leaded Solder Alloys with lead <85%	All types Bars, ingots, solid wire, tapes, preforms, clippings, tablets flux-cored wire with any flux type and any flux content Typical alloys are: SnPb, SnPbAg, SnPbP	✗ Pb	✗ Pb	○ Pb	✓	✓	✓
3	Leaded Solder alloys with lead > 85%	All types Bars, ingots, solid wire, tapes, preforms, clippings, tablets flux-cored wire with any flux type and any flux content Typical alloys are: PbSn, PbSnSb, PbSnAg	○ Pb	✗ Pb	○ Pb	✓	✓	✓
4	Lead-free Solder Pastes	All types Jars, Syringes, Cartridges All Solder paste types with lead-free alloys, e.g. SAC305 or SnBi(Ag) examples are TLF, GP, JDS, AP-10 and AP-20 lead-free types	✓	✓	✓	✓	✓	✓
5	Leaded Solder Pastes with lead <85%	All types Jars, Syringes, Cartridges Typical alloys are: SnPb, SnPbAg, examples for pastes are Tamura RMA types or TAMURA ELSOLD AP-10 SnPb	✗ Pb	✗ Pb	○ Pb	✓	✓	✓
6	Leaded Solder Pastes with lead > 85%	All types Jars, Syringes, Cartridges Typical alloys are: PbSn, PbSnSb, PbSnAg, example for paste is TAMURA ELSOLD AP-10 PbSnAg	○ Pb	✗ Pb	○ Pb	✓	✓	✓
7	Fluxes liquid tacky solid	All types Containers, Jars, Syringes, Cartridges examples are: all ELFUX types, EC-19S types, ULF types	✓	✓	✓	✓	✓	✓
8	Diluents Thinners	All types Containers examples are: #4520, Thinner 003, 005, 100 to 301	✓	✓	✓	✓	✓	✓
9	Carbon Resin Conductive Pastes	MRX-713J MRX-713J-A	✓	✓	✓	✓	✓	✓
10	Photocoats Solder Resist Inks	USI-210W (29) 250, USI 210W-28, USI-210C-3 USR-2C, USR-2G(F-24C)250, USR-2W-13-200	✓	✓	✓	✓	✓	✓
11	Solder Mask	PAF300-8A-SET PAF300-8G-SET	✓	✗	✓	✓	✗	✓