

Delivery Instructions High Purity & Optics (HPO)

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1 Prohibited Substances

Prohibited substances (see following list) must be avoided in the entire installation

- Silicone or outgassing silicone compounds
- Outgassing halogen compounds (F, Cl, Br, J)
- Indium
- Manganese compounds
- Lead compounds
- Components liable to rust

2 Critical Materials

Critical materials (see following list) must not be used in the media-carrying area or transport area of the cleaned goods.

Suppliers must point out the use of these substances in their components and, if possible, use alternatives.

- Zinc
- Tinn
- Non-ferrous metals (Bronze, Brass, Oxygen-containing copper)
- Teflon grease
- Greases/oils
- Organophosphorus compounds

3 Production

- Stainless steel components must be manufactured separately from black steel (ferritic materials). Contamination with black material will later lead to rust on the manufactured components. Ecoclean cannot accept this rust.
- Tools which have been in contact with black steel must not be used during production. There is a high risk of later rust formation.
- The tool used for assembly must be checked for contamination before use and cleaned if necessary.
- If the component or assembly is not worked on for a longer period of time, it must be protected against contamination (essentially against particles), e.g.: by covering it with protective foil.
- During the entire manufacturing process, cross-contamination of all components in contact with the media with Zn, Sn, In, Pb and Si is not permitted.

4 Packaging

- Containers and components must be delivered cleaned: (free of chips, stains, dust and processing materials)
 - When removing coarse soiling, care must be taken not to scratch the surface during cleaning.
 - When cleaning, make sure that all bores, blind holes, and undercuts are also well cleaned!
 - After cleaning, the component must be dried immediately to avoid re-contaminating the component.
 - Cleaned components must be packed immediately after cleaning and drying.
- Containers and pumps must be delivered with closed openings (plugs or closed with foil)
 - On components that have flange and connection points, these must be sealed.
- Functional surfaces (ground, polished, electropolished) must be additionally protected or packed for transport.
- For large components, special arrangements for packing can be made after consultation with the purchasing and engineering departments.
- The components must not be scratched or otherwise damaged by securing.