

INFORMATION

SERTO US/OX/SI services - cleaning and lubrication

Some fields of application for our tube unions and valves are subject to strict cleanliness requirements. SERTO therefore offers the following options:

- **US** cleaned in an ultrasound bath, not lubricated.
- **OX** cleaned in an ultrasound bath, lubricated for oxygen systems.
- **SI** cleaned in an ultrasound bath and lubricated silicone-free for use in combination with paints and varnishes

Tube union components are subjected to a multi-stage cleaning process before being assembled in a clean room, lubricated where required and packaged. All cleaning and lubrication materials contain no animal products as per ADI/TSE/BSE (EMA/410/01).

Service	Cleaning/Packaging	Lubrication
US	Ultrasound cleaning as per ASTM G93 Assembly in clean room/packaged individually in heat-sealed PE bags	None – to be lubricated by the customer
OX		FOMBLIN M100 ⁽¹⁾ and/or TURMOXYGEN LCO 25 ⁽¹⁾ – both are authorised under BAM
SI		TURMOTEMP II/400 CL 2 ⁽¹⁾

(1) Contains PFAS

An external laboratory verifies periodically that cleaning specifications are being met. As part of this process, the quality and cleanliness of the rinsing baths and cleanliness in terms of residue on the components are analysed. SERTO AG confirms that the threshold values set out in the table below correspond to ASTM G93 for three analysis parameters.

Analysis parameter	Total extractable apolar organic residues	Total apolar extractable residues	Water-soluble organic residues
Substance group	Hydrocarbons	THC + particles	Organic carbons
Abbreviation	THC	NVR	TOC
Threshold under ASTM G93 not reached	11 mg/m ²	33 mg/m ²	11 mg/m ²
Cleanliness level under ASTM G93	A	B	A

Frauenfeld, 04/01/2024



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