

Non-PFAS-Modified Tribological Compounds

Innovative alternatives to classic compounds

Introducing our cutting-edge PFAS-free tribological compounds, designed to meet the highest standards of performance and environmental safety. Engineered for self-lubrication, these compounds enhance durability, reduce friction, and extend the lifespan of your machinery without the need for per- and polyfluoroalkyl substances (PFAS). Embrace this sustainable choice for efficient, eco-friendly, and reliable applications.

The LEHVOSS Group has been at the forefront of this innovation since the 1990s, when it introduced the first non-PFAS-modified tribological compounds. Over the years, numerous series applications have been successfully implemented. Our compounds are based on commonly used polymers such as PA66, PA46, PBT, PPS, and PEEK, in combination with various additives and also incorporate nano-technology. You can trust in our expertise.

Our offer - your benefits:

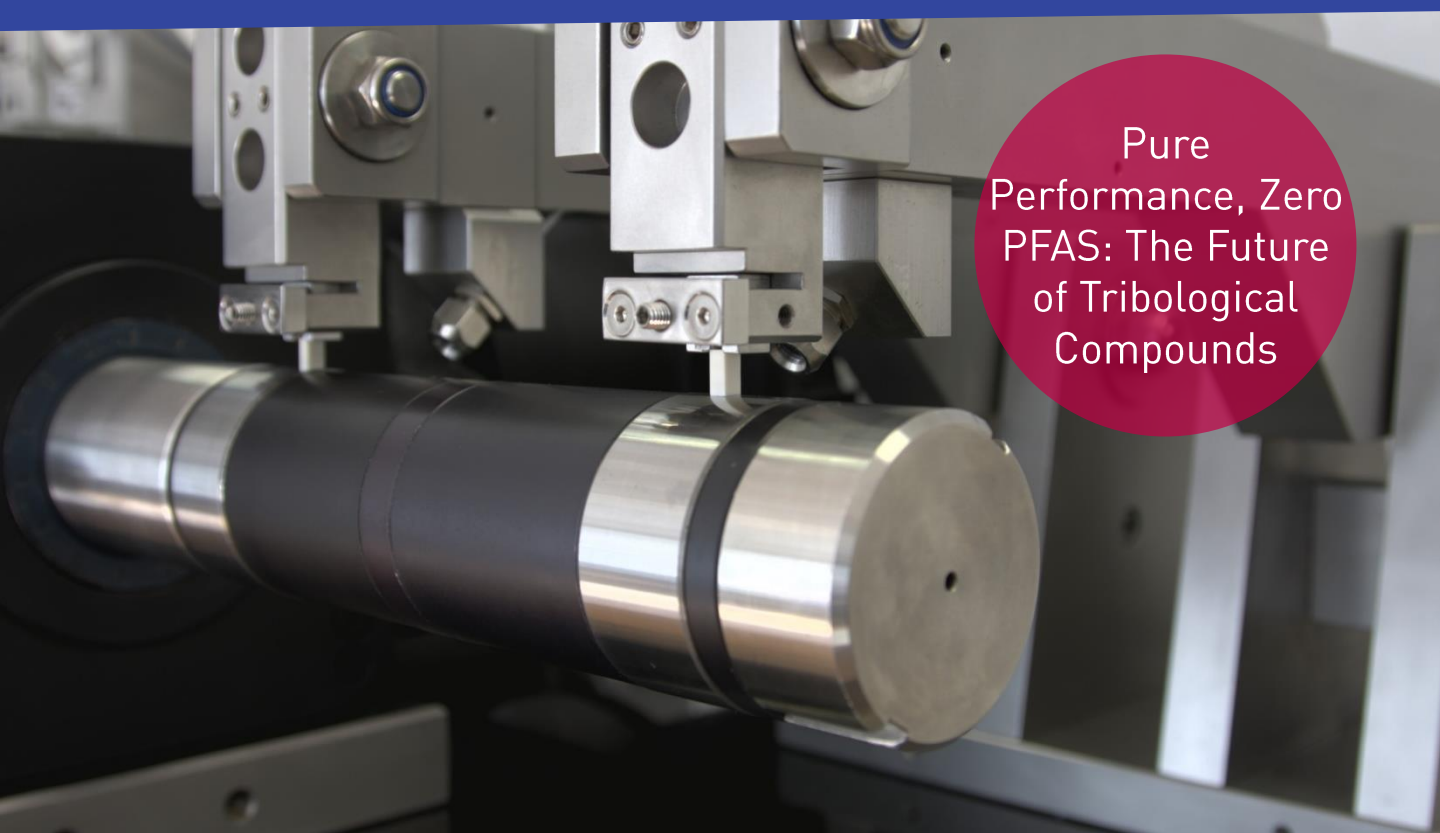
- Development and supply of PFAS-free compounds based on all polymers
- Reliable and trusted quality
- Sound knowledge and experience in tribological applications
- In-house tribological testing equipment

Benefits over classical PTFE-modified compounds:

- Easier processing
- No PTFE deposits on tool surfaces
- Lower density (hence lower cost and weight)
- Enhanced mechanical properties
- Improved use in media (chemicals)

Read more on our blog:

[PFAS should be banned!? What now? And where do we stand in terms of replacing PTFE?](#)

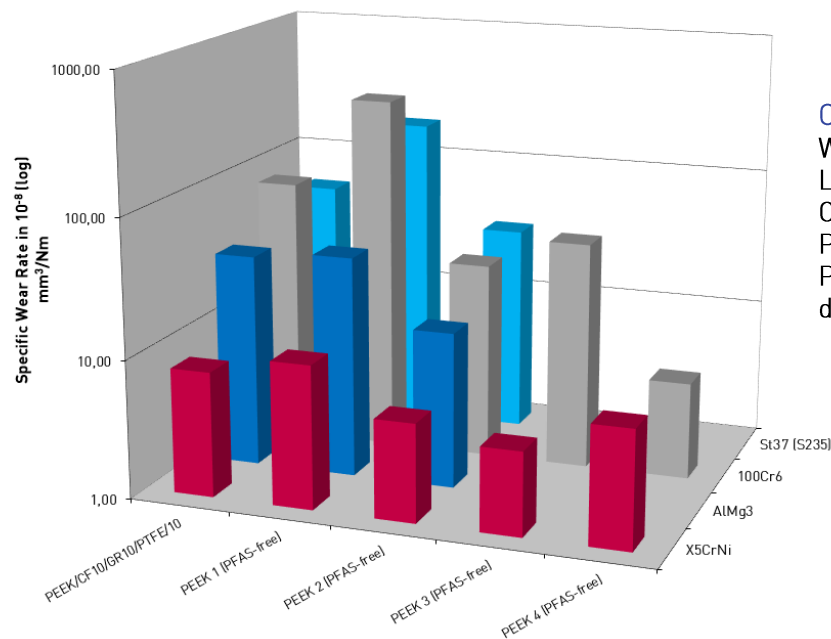


Pure
Performance, Zero
PFAS: The Future
of Tribological
Compounds

Portfolio Overview
(more materials are available or being currently developed)

LUVOCOM® grade	Color	Polymer	Alternative to classic
1-50763	Black	PA66	PA66/GF/30/PTFE
1-50781/BK	Black	PA66	PA66/GF/50/PTFE
1-50793/BK	Black	PA66	PA66/GF/20/PTFE/SI
1-50730	Black	PA66	PA66/CF/20/PTFE
1-50765	Black	PA66	PA66/CF/30/PTFE
1-50720	Black	PA66	PA66/PTFE
19-50820/BK	Black	PA46	PA46/GF/30/PTFE
1850-50811/BK	Black	PBT	PBT/GF/40/PTFE
1301-7815	Black	PPS	PPS/CF/10/GR/10/PTFE
1301-50728	Yellow	PPS	PPS/AF/PTFE
1301-50729	Gray	PPS	PPS/AF/PTFE
1105-50760	Natural	PEEK	PEEK/GF/15/PTFE
1105-7678	Black	PEEK	PEEK/CF/10/GR/10/PTFE/10
1105-8160	Black	PEEK	PEEK/CF/10/GR/10/PTFE/10

GF = glass fibers, CF = carbon fibers, SI = silicone oil, GR = graphite, AF = aramid fibers



Outstanding performance
Wear of tribological, PFAS-free LUVOCOM PEEK compounds. Compared to the classic 10/10/10 PEEK (10% each CF, graphite and PTFE). Testing conducted with different counterpart materials.

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