



Revolutionize Your Injection Moulding Operation with Chem-Trend® HFE line of products

SUSTAINABLE CHOICE, UNCOMPROMISED PERFORMANCE:
HYDRAULIC FLUIDS FOR INJECTION MOULDING MACHINES

Get Ready for a Change and Discover the Power of Chem-Trend® HFE in Your Injection Moulding Operations

INTRODUCING HFE, CHEM-TREND'S HYDRAULIC FLUID ESTER OIL

Although mineral oils are still widely used as standard hydraulic fluids in the thermoplastics processing industry, Chem-Trend® HFE brings a true technological leap that reshapes equipment performance and reliability. Compared to mineral oil, our advanced synthetic formulation delivers decisive advantages:

- Longer life and higher reliability for injection molding machines, thanks to superior thermal stability and enhanced lubrication - critical for highly repetitive production cycles.
- Improved workplace safety and cleanliness, with reduced vapor formation, residue buildup, and oil mist.
- Better sustainability, using a vegetable oil derived base instead of petroleum-based mineral oils.
- Certification and approval from leading industry OEMs, ensuring compatibility and operational confidence.

Chem-Trend® HFE doesn't just replace mineral oil, it outperforms it across all key parameters for thermoplastics applications.

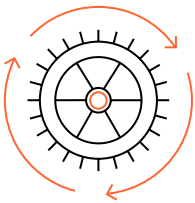
Equipment

MAXIMIZE EQUIPMENT LONGEVITY AND PERFORMANCE WITH CHEM-TREND® HFE

In the thermoplastic industry, your equipment represents a significant investment. The risk of wear and tear is high, and energy costs can quickly add up. Protecting your machinery with prime maintenance

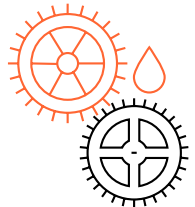
products is crucial to ensure optimal performance and longevity. Chem-Trend® HFE offers unparalleled benefits that address multiple critical needs.

CONSISTENT PERFORMANCE



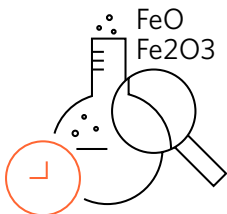
Chem-Trend® HFE's high viscosity index is designed to provide consistent performance across varying temperatures in your thermoplastic operations.

SUPERIOR LUBRICATION



Chem-Trend® HFE delivers high lubricating strength, providing exceptional load-carrying capacity and effective friction reduction, even in demanding operating conditions. This robust protection helps safeguard your equipment from wear, extend its operational lifespan.

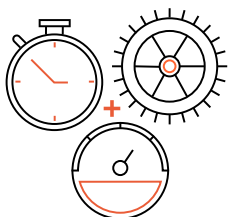
NO RISK OF CORROSION



Chem-Trend® HFE is a fully synthetic oil with special additives that aim to provide excellent corrosion protection, helping your equipment stay in top condition.

By protecting against corrosion, Chem-Trend® HFE supports the smooth and efficient operation of your equipment, potentially safeguarding your investment.

IMPROVEMENT OF OEE



Chem-Trend® HFE contributes to higher Overall Equipment Effectiveness (OEE) by enhancing availability, performance, and quality. As part of the HFD-U hydraulic fluids, Chem-Trend® HFE comes without water, eliminating the risk of cavitation in the hydraulic system. Cavitation can cause leaks, high maintenance costs, and expensive spare part replacements.

By using Chem-Trend® HFE hydraulic fluids, you can avoid these issues, further enhance your equipment's efficiency and reduce overall costs.

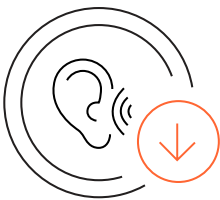
Operators

ENHANCE WORKPLACE SAFETY AND HEALTH WITH CHEM-TREND® HFE

In the thermoplastic industry, ensuring the health and safety of your workforce is paramount. The environment can be challenging, with noise, fire hazards, and stringent safety regulations posing significant risks.

Chem-Trend® HFE addresses these concerns, providing solutions that enhance the well-being of your team, both on the road and on-site, as well as simplifying compliance:

NO MORE NOISY MACHINERY



Chem-Trend® HFE typically reduces operational noise up to 4-5 decibels, creating a quieter and more pleasant working environment.

This reduction in noise not only improves comfort but also helps in maintaining a healthier auditory environment for your employees.

REDUCED RISK OF FIRE



Chem-Trend® HFE includes fire safety features in accordance with EN ISO 20823, which aim to reduce the risk of fire-related incidents and contribute to a safer workplace for everyone.

SAFETY REGULATIONS MET



Chem-Trend® HFE simplifies logistics, making both on-site handling and transportation safer and easier.

By eliminating the need for hazardous materials certification, HFE reduces the complexity and risk associated with compliance, allowing your team to focus on their core tasks.

CERTIFIED



Chem-Trend® HFE hydraulic fluids are FM Approved (FM 6930) and meet rigorous safety and performance standards.

This certification provides peace of mind, knowing that the products have been thoroughly tested and approved for their fire-resistant properties and overall reliability. Using FM Approved products not only enhances workplace safety but also can lead to lower insurance premiums and easier regulatory compliance.

Environment

CHAMPION SUSTAINABILITY WITH CHEM-TREND® HFE

In the thermoplastics industry, sustainability is becoming increasingly important, and Chem-Trend® HFE leads this shift by applying the principles of green tribology and green chemistry. Using a vegetable-oil-derived base, it provides a sustainable

solution that reduces environmental impact without compromising performance. Whether your goal is to lower energy use, cut waste, or reduce your environmental footprint, Chem-Trend® HFE delivers meaningful results.

GOING FOR AN ECO-RESPONSIBLE CHOICE



Chem-Trend® HFE is biodegradable, making it an environmentally responsible choice.

By using it, you help reduce your operation's environmental footprint, as the lubricant naturally breaks down without harming the ecosystem.

PEACE OF MIND WITH WASTE DISPOSAL



Chem-Trend® HFE is easy to dispose of, ensuring minimal environmental impact.

Its formulation allows for simple separation from wastewater using a skimmer, making the disposal process straightforward and reducing the burden on waste management systems.

CUTTING DOWN ENERGY COSTS



Chem-Trend® HFE enhances motor-pump efficiency, helping you achieve greater efficiency with lower energy consumption.

By reducing energy usage, you not only save on operational costs but also contribute to a more sustainable operation.

REDUCTION OF CARBON FOOTPRINT



Chem-Trend® HFE's formulation includes renewable resources, which helps in reducing the overall carbon footprint of your operations.

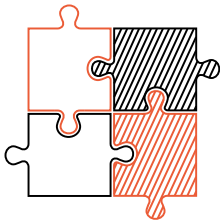
By choosing Chem-Trend® HFE, you support the use of sustainable materials and contribute to the reduction of green-house gas emissions, aligning your operations with global sustainability goals.

Top-Tier

TRUSTED BY LEADING OEMS FOR TOP-TIER RELIABILITY

Chem-Trend® HFE hydraulic fluids have earned the trust of leading Original Equipment Manufacturers (OEMs).

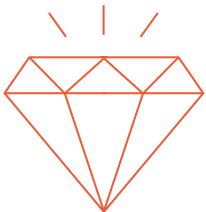
ENHANCED EQUIPMENT COMPATIBILITY



Chem-Trend® HFE is designed to work seamlessly with a wide range of machinery, reducing the risk of operational issues and promoting smooth performance.

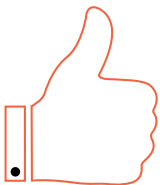
This compatibility helps minimize downtime and maintenance needs, allowing for more efficient and uninterrupted operations.

PROVEN PERFORMANCE



The product has undergone thorough testing and met the stringent standard of industry leaders, demonstrating excellent performance under various conditions.

BOOSTING TRUST AND CREDIBILITY



Using a product approved by well-known OEMs enhances your credibility with clients and stakeholders, showcasing your commitment to quality.

Clients and partners will trust and appreciate your dedication to using top-tier, reliable products.

SERVICE AND SUPPORT



Chem-Trend, in collaboration with OEMs, provides extensive service to optimize the use of Chem-Trend® HFE hydraulic fluids. This includes technical assistance, training, and maintenance.

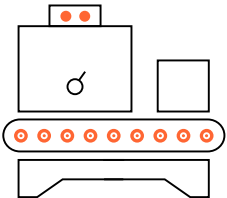
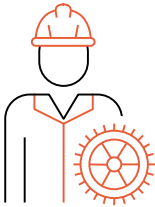
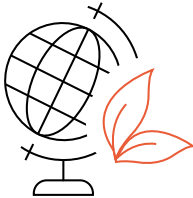
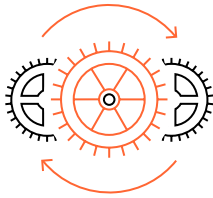
The support helps your team become well-equipped to handle the fluids, leading to smoother operations and quicker resolution of any issues that may arise.

Benefits

CHEM-TREND® HFE HYDRAULIC FLUIDS: YOUR BENEFITS AT A GLANCE.

Chem-Trend® HFE hydraulic fluids are engineered to meet the most critical demands of the thermoplastics industry, offering a concentrated set of powerful, purpose-built advantages.

With four categories delivering four key benefits each, they provide a true “four-squared” solution, combining exceptional performance, safety, sustainability, and reliability.

EQUIPMENT	OPERATORS	ENVIRONMENT	TOP-TIER
			
Consistent performance	Reduced noise	Biodegradable	Enhanced equipment compatibility
Superior lubrication	Fire safety (DIN EN ISO 20823)	Easy disposal	Proven performance
No corrosion	Simplified logistics	Lower energy consumption	Increased trust and credibility
High OEE	FM Approved	Reduced carbon footprint	Comprehensive support and service

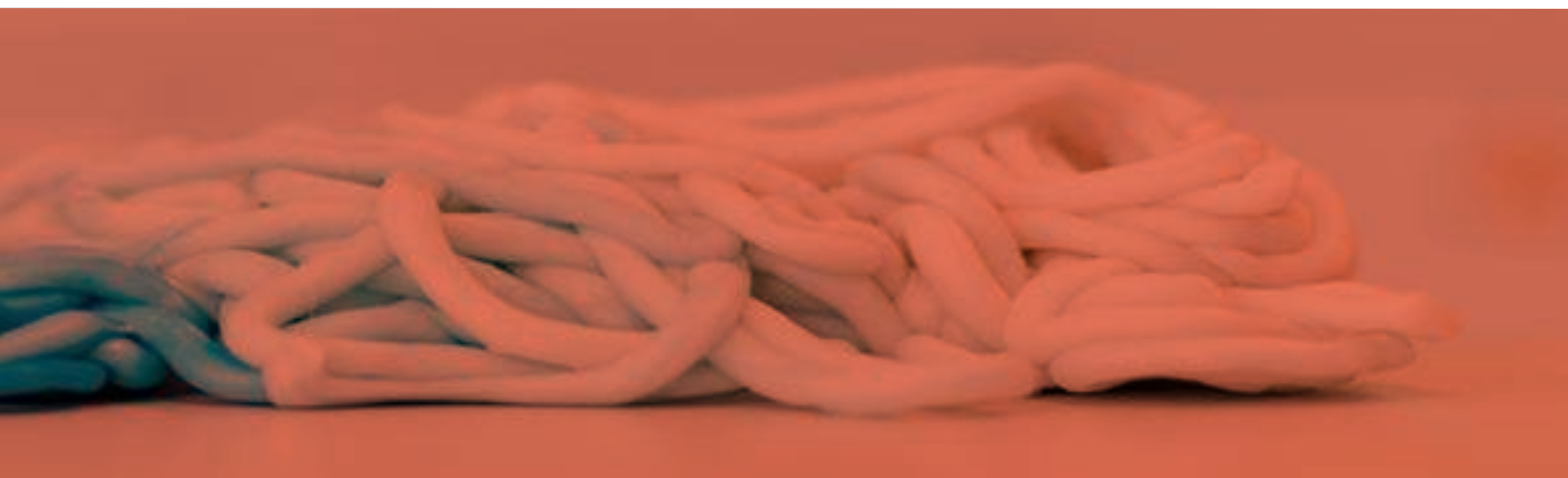


A trusted, reliable solution

Choose Chem-Trend® HFE for a trusted, reliable solution that meets the highest industry standards and supports your success.

Embrace the future with Chem-Trend® HFE hydraulic fluids, sustainable and efficient fluids that care for your machinery, your people, and the environment.

Make the switch today and experience the unparalleled benefits of Chem-Trend® HFE in your thermoplastics operations.



CHEM-TREND® HFE



Contact us for more information and to connect with a local sales representative.

**HYDRAULIC
FLUID
ESTER OIL**

The statements in this brochure are informational in nature and do not constitute a warranty of any kind, express or implied, of the suitability of the products for particular applications.

*FZG Test passed in >12 progressive load stages ISO 14635-1 (FZG stands for "Forschungsstelle für Zahnräder und Getriebebau", Technische Universität München (Gear Research Centre, Technical University, Munich))