

CHEMFAB®

LOW FRICTION LININGS

MAKING ELECTROMAGNETIC
SOLENOIDS WORK BETTER


SAINT-GOBAIN



WHO WE ARE

As one of the 100 most innovative companies, we continue to deploy our technological know-how to deliver improved solutions for the most demanding applications in diverse segments.

As part of Saint-Gobain's Performance Plastics group, we provide industrial expertise and experience in the areas

of innovation and co-development through a wide range of high-performance materials and processes.

Our solutions respond to needs and solve problems in various industries such as automotive, aerospace, health, defence, security and the food and beverage industries.



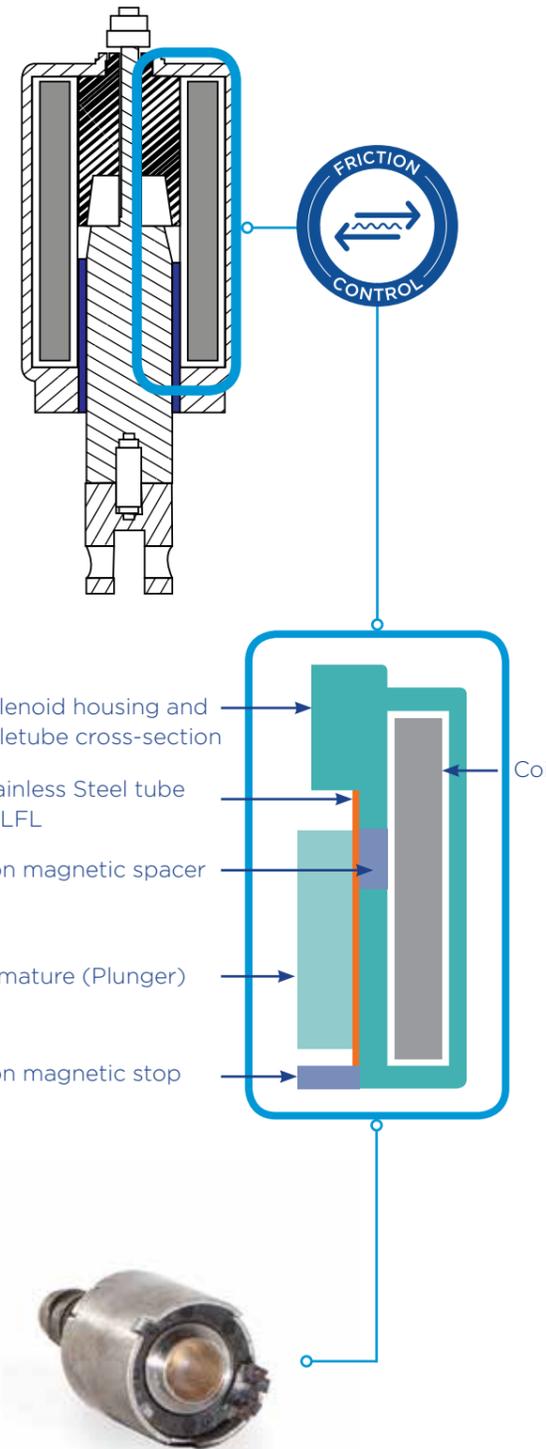
CHEMFAB® Low Friction Linings (LFL) are increasingly used in EM solenoids for automatic transmissions. They improve driver comfort and overall vehicle economics, with lower power consumption and reduced space and weight requirements.

YOUR PARTNER FOR PERFORMANCE

We will work with you to help produce vehicles and systems that meet higher levels of fuel efficiency, increased life cycle, lower cost and heightened performance. The optimisation of hysteresis and low friction properties of CHEMFAB® LFL in EM solenoids have enabled improved transmission responsiveness and driver comfort which are important benefits in the increasingly demanding automotive market.



HIGH PERFORMANCE SOLENOIDS



APPLICATIONS

Our Low Friction Linings are used in electromagnetic solenoids in the following applications: Automatic transmission control valves, Powertrain hydraulic systems, Hydraulic braking systems, Exhaust gas re-circulation, Fuel shut-off valves, Hydraulic construction machinery, Industrial process controls and Automation equipment.

FEATURES

- Lightweight
- Thin
- Non-magnetic layer with tight tolerances
- Low friction surface
- Die cut pieces
- High & low temperature stability
- Highly lubricious surface
- Highly resistant to oils & lubricants
- Consistent mechanical wear

OUTCOMES

- Increased driver comfort
- Lower hysteresis
- Reduced power requirements
- Faster reaction times
- Smaller solenoids
- Higher reliability
- Greater design flexibility
- Reduced CO₂ emissions
- Increased vehicle economics
- Proven long life solution
- Space and mass savings

These low friction linings also compare favourably with the high cost and the administrative burden of using an external sub-contractor for coated metal parts such as electroless nickel or hard chrome.





We support our customers with in-house technical capabilities that are unmatched in the industry. With research and co-development being at the heart of our strategy, we focus both on breakthrough innovations and on continuously improving our products, processes and services in a spirit of openness and attentiveness to customer needs.

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FC/LFL/EU/V2/6P

