

# Leak Repair Exclusive, Innovative Technologies

Popular types of leak repair sets include:

- **Valve Cover Gasket Sets**
- **Oil Pan Gasket Sets**
- **Intake Manifold Gasket Sets**
- **Exhaust Manifold Gasket Sets**
- **Timing Cover Gasket Sets**
- **Rear Main Seal Sets**
- **Individual Gaskets**

Leak repair is inherently problematic, so it requires a wider variety of application-specific materials than does the engine repair. The exclusive innovations Fel-Pro® brings to the aftermarket give installers the sealing solutions they need, whether they are professional technicians or do-it-yourselfers.

Those Fel-Pro innovative technologies include:

- **Edge-molded gaskets**
- **Encapsulated carrier gaskets**
- **Liquid elastomer molded (LEM) gaskets**

Fel-Pro also provides another vitally important advantage: world-class molded-rubber manufacturing capabilities from Federal-Mogul. It's an ability no other gasket-maker can offer. Federal-Mogul's in-house expertise brings an unparalleled understanding of molded-rubber chemistry and processes to Fel-Pro Gaskets.

The R&D, engineering, and manufacturing required to create the sealing solutions of the future are cost-prohibitive for many companies. Federal-Mogul, however, has the resources to make exciting new sealing concepts a reality in the Fel-Pro gaskets they offer the aftermarket – now and in the future.

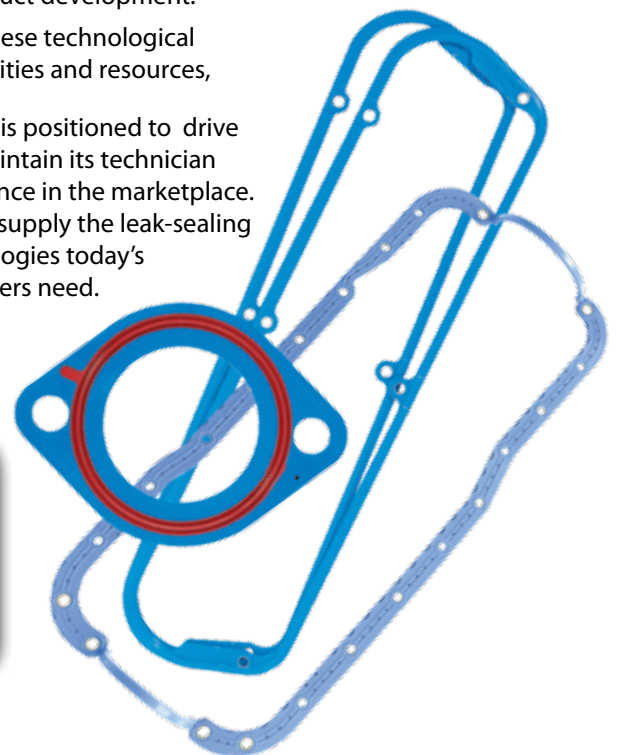
These resources include state-of-the-art testing facilities where new sealing systems are subjected to rigorous tests:

- **Dynamometer Thermal Shock Cycles** – The engine, running on a dynamometer, is overheated, then super-cooled several times to test parts under extreme contraction and expansion.
- **Environmental "Shake and Bake"** – Gasketed components are vibrated and heated on a testing stand to gauge gasket durability during accelerated life-cycles.
- **Nitrogen Pressure Test** – The engine is pressurized with nitrogen to test the combustion seal.

In addition, field testing combines on-the-road driving, tear-downs, and installations to evaluate gasket effectiveness during actual use and in repair environments. And of course, track testing in arenas such as Professional Stock Car Racing, World of Outlaws®, and NHRA® put Fel-Pro gaskets to the ultimate test while aiding in product development.

With these technological capabilities and resources,

Fel-Pro is positioned to drive and maintain its technician preference in the marketplace. And to supply the leak-sealing technologies today's customers need.



## Premium Leak-Sealing Technologies

- PermaDryPlus®** Problem-solving gaskets featuring advanced technologies designed specifically for the aftermarket repair environment
- PermaDry®** Premium molded-rubber gaskets for applications originally equipped with molded-rubber technology