

NEW 7-LAYER HEAD GASKET SEALS REBUILT ENGINES BETTER

Sealing the most demanding area in a commercial engine – it takes today’s most advanced gasket design.

FP Diesel® has introduced a highly advanced multi-layer-core head gasket technology that will bring significantly enhanced combustion and fluid sealing capabilities as well as temperature resistance to a broad range of high-output commercial diesel engines: The ML⁷™ head gasket.

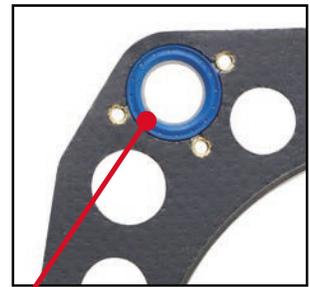
As commercial engine rebuilders look for the latest and best engine sealing solutions, FP Diesel’s ML⁷ gasket provides a new generation of head gaskets.

The key to the ML⁷ design is the reinforced gasket body which increases lateral stability and provides a rigid backbone to the combustion seal. The expanded graphite facing material is well suited to high-temperature operating environments, is impervious to chemicals, and remains conformable for unsurpassed fluid sealability.



LAYERS OF INNOVATION DELIVER COMPLETE PERFORMANCE

The ML⁷ gasket’s innovative design enables it to withstand significantly higher combustion pressures and temperatures as well as increased vertical and lateral motion between the engine block and cylinder head. Its steel core reinforcement helps ensure optimal compressed thickness control within each engine application. The thickness of the gasket body, armor and wire is engineered to achieve optimal load balance among the components and materials.



FULLY ENCAPSULATED GROMMETS

Some gasket designs utilize grommets that are staked into place. But being fixed in place, they lack the flexibility to seat properly, leading to unwanted sealing issues. In some cases, they can fall out during assembly. By contrast, the ML⁷ gasket’s molded rubber grommets are eyeleted into the gasket body. They allow precise sealing bead location, accommodate casting movement, and enable trouble-free installation.

KEVLAR®-REINFORCED COMPOSITE MATERIAL

Kevlar-reinforced composite material between the graphite facing material and perforated steel outer core forms a better bond between the perforated cores for unprecedented strength.

1/4 HARD (301 SS) STAINLESS STEEL COMBUSTION ARMOR

PERFORATED OUTER STEEL CORES

EXPANDED GRAPHITE FACING WITH MOLY COATING AND SILICONE TOP COAT

The ML⁷’s resilient, conformable graphite facing provides excellent fluid sealability and low creep relaxation, and stands up to temperature extremes and corrosive chemicals. This graphite facing material utilizes a special moly coating developed specifically for the aftermarket service environment. This coating helps seal imperfections in the head and block mating surfaces and allows the gasket to adapt to lateral and vertical casting motion caused by combustion pressures and extreme operating temperatures. The special top coat provides no-stick release for future engine work.

THICK, SOLID STEEL CORE

LOW-CARBON STEEL WIRE RING

Copper flash-coated low-carbon steel (LCS) wire ring is the primary combustion seal and provides enhanced sealing stress around each combustion opening.

