

# IT'S ALL ABOUT THE SEAL...

PREMIUM MAHLE INTAKE MANIFOLD GASKETS USE THE NEWEST TECHNOLOGY TO PROVIDE A SUPERIOR SEAL.

## Why MAHLE gaskets are the best...

- **Hydrogenated nitrile butyl rubber sealing bead** is highly resistant against acid
- **Fully encapsulated coolant port** protects gasket against OAT coolant
- **Metal load limiters** help prevent over torquing
- **RTV sealing diversion channels** are built into the gasket to help prevent the sealing bead from being compromised
- **One large sealing bead** allows for precise sealing bead placement around the coolant ports
- **Molded polymer carrier** utilizes a high tech material to combat any possible corrosion and fluid absorption issues
- **Advanced molding process** leads to a consistent sealing bead position

## Solutions

- **Built in RTV diversion channels** help distribute excess RTV which can compromise proper sealing
- **Fully encapsulated HNBR rubber coolant ports** protect against acidic OAT type coolants
- **Steel load limiters** prevent over torquing and protect the carrier against thermal expansion and contraction
- **Advanced molding process promotes longer life of the sealing bead**
  - Sealing element precisely and permanently molded in place allows for ease of assembly
  - Provides optimum setting for a compressed sealing bead during and after assembly
  - Yields extremely low permeability rate with precise volume/void ratio

New technology,  
HNBR constrained  
sealing bead on a  
molded polymer  
carrier

**Metal load limiters** Help prevent over torquing and protect carrier from thermal expansion and contraction

**Advanced molding process** Constrains bead within a groove on the carrier for consistent sealing bead position

**Hydrogenated nitrile butyl rubber (HNBR) sealing bead** Provides superior strength retention when exposed to acids

**Coolant ports with fully encapsulated HNBR rubber** Protects gasket against OAT coolant

**Molded polymer carrier** High tech material eliminates corrosion and hydrolysis (fluid absorption) issues

**Built-in RTV sealant diversion channels** Helps prevent compromise of sealing bead

For additional information, visit our web site at [www.mahle-aftermarket.com](http://www.mahle-aftermarket.com) or contact tech services at (800) 248-9606.

**MAHLE**<sup>®</sup>

# IT'S ALL ABOUT THE MULTI-LAYERS...

PREMIUM MAHLE MULTI-LAYERED STEEL GASKETS USE THE NEWEST TECHNOLOGY TO PROVIDE A SUPERIOR SEAL.

## Why MAHLE gaskets are the best...

- **Five stainless steel layers** which exhibit excellent resistance to temperature, corrosion, and pitting
- **Patented integrated push rod locators** ensures that the pushrods are installed correctly and seated squarely in the lifters
- **Proprietary fluoroelastomer (rubber) coating** offers superior adhesion, temperature resistance, and is resistant to fuel, oil, and coolant
- **Precisely controlled dowel size openings** keep the head gasket square during installation
- **Embossment design** provides superior combustion seal
- **Manufactured in the U.S.A and made to OEM specifications**

## Solutions

- **Push rod locators prevent valvetrain geometry and installment issues**
- **Precisely controlled dowel openings assist in head gasket to cylinder head and block alignment**
- **FKM coating seals and impregnates into the mating component surface decreasing friction forces and is soft enough for cold sealing and features:**
  - Maximum adhesion
  - Increased durability and temperature resistance
  - Resistance to engine fluids including gas, oil, and coolant

**Patented integrated push rod locators** Ensures that the pushrods are installed correctly and seated squarely in the lifters

**Precisely controlled dowel size openings** Keep the head gasket square during installation

**Manufactured in the U.S.A. and made to OEM Specifications**

**Proprietary fluoroelastomer rubber (FKM) coating** Offers superior adhesion, temperature resistance, and is resistant to fuel, oil, and coolant

**Embossment design** Provides a superior combustion seal



**Constructed of five stainless steel layers** Helps to reduce cylinder head lift to maintain a superior combustion seal

For additional information, visit our web site at [www.mahle-aftermarket.com](http://www.mahle-aftermarket.com) or contact tech services at (800) 248-9606.

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