

Multi-Layer Steel Core Head Gasket

HOW AFA MULTI-LAYER STEEL CORE HEAD GASKETS PROVIDE SUPERIOR SEALING

Multi-layer construction ensures maximum sealing power under differential expansion and contraction between head and block. Rigid steel core guarantees uniform thickness control across the sealing surface of every engine application. Precision engineering of ring wire and stainless combustion seal rings provides the highest level of sealing between head and block.



5 LAYERS FOR SUPERIOR SEALING:

A. GRAPHITE SEALING LAYER Expanded Graphite is the best sealing surface in the industry. Its molecular composition allows it to adapt to differential expansion and contraction of head and block while maintaining a perfect seal. This carbon based material's conformability allows it to compensate for imperfections in the mating surfaces often found in overhaul conditions. Graphite is one of the best performing sealing materials in heavy combustion pressures and extreme operating temperatures. Overall, there is no better sealing material on the market today.

B. PERFORATED STEEL CORE This layer composed of thousands of small prongs is cinched to the Graphite Sealing layer under tons of pressure, locking the two elements into an inseparable single unit. Specially formulated thermal adhesives bond the perforated steel core to the rigid steel core resulting in one integral unit for maxim rigidity and unexcelled sealing capabilities under the most extreme thermal conditions and combustion pressure loads.

C. RIGID SOLID STEEL CORE The heart of this superb head gasket is the rigid solid steel core. It provides the supporting base for the sealing surfaces and the dimensional stability required for the extreme operating conditions encountered in heavy duty diesel engine operating conditions

