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Fel-Pro 26223PT

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1. PRODUCT OVERVIEW

The FEL-PRO 26223 PT Head Gasket is engineered to provide a reliable seal for engine cylinder heads. This component is crucial for maintaining proper engine compression and preventing the leakage of combustion gases, coolant, and oil between the engine block and cylinder head. Fel-Pro gaskets are designed with application-specific materials to ensure optimal performance and durability in various operating conditions.

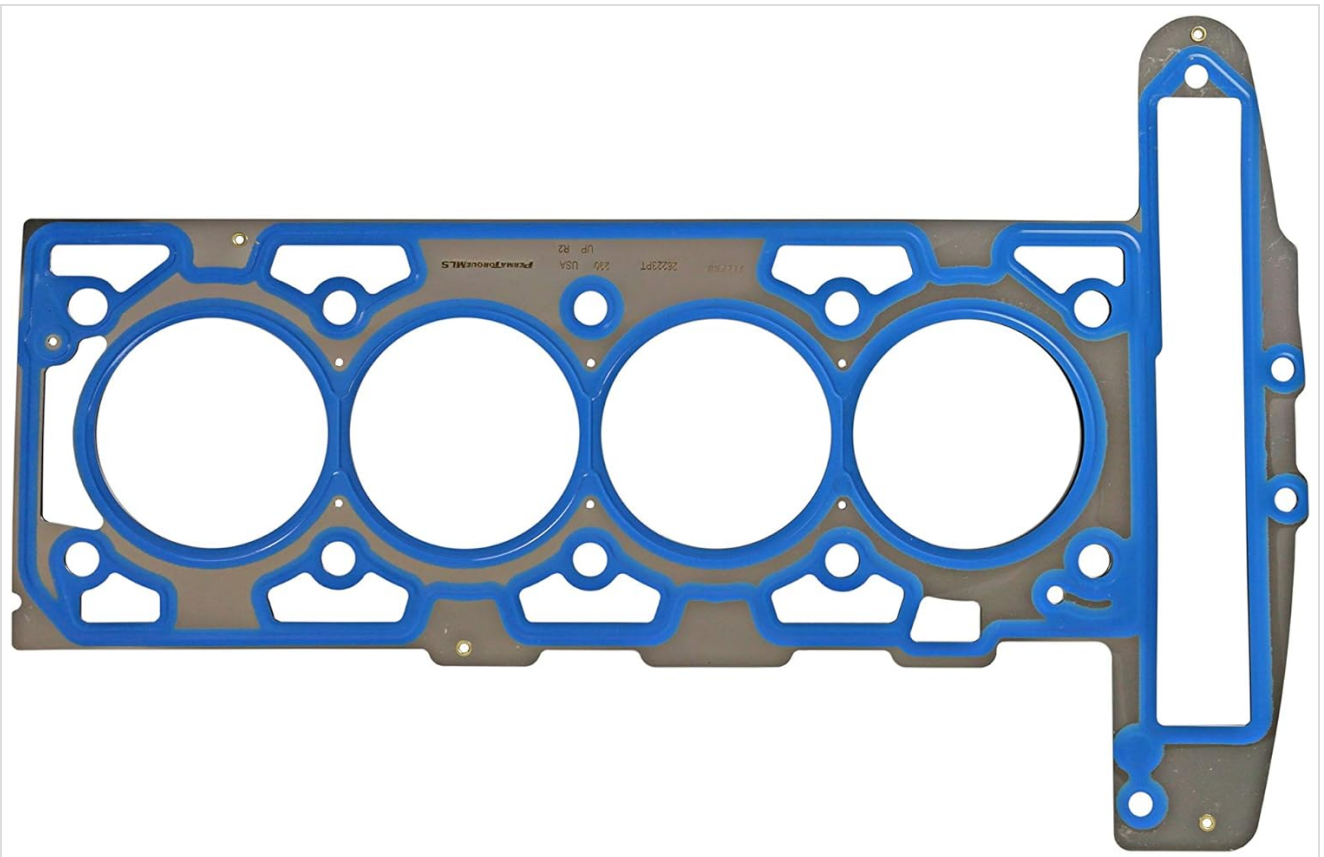


Image 1.1: A single FEL-PRO 26223 PT Head Gasket, showcasing its distinct blue sealing beads and multi-layered construction.

2. COMPATIBILITY INFORMATION

This head gasket is compatible with specific vehicle models. Before installation, it is essential to verify that this part is suitable for your vehicle. Refer to the following compatibility list:

- 2004-2005 Chevrolet Classic
- 2005-2008 Chevrolet Cobalt
- 2006-2008 Chevrolet HHR
- 2002-2005 Chevrolet Cavalier
- 2004-2008 Chevrolet Malibu
- 2002-2004 Oldsmobile Alero
- 2005-2006 Pontiac Pursuit
- 2007-2008 Pontiac G5
- 2002-2005 Pontiac (various models)

Always confirm fitment by providing complete vehicle information (year, make, model, engine, and trim) to a qualified parts professional or by consulting your vehicle's service manual.

3. KEY FEATURES

The FEL-PRO 26223 PT Head Gasket incorporates advanced design and material technologies to ensure a robust and lasting seal:

- **Proprietary NextGen Coating Technology:** A precise amount of coating is applied to the gasket surface. This coating is designed to withstand high engine temperatures and effectively seal against surface finishes with roughness up to 80 Ra, which is common in repair environments.

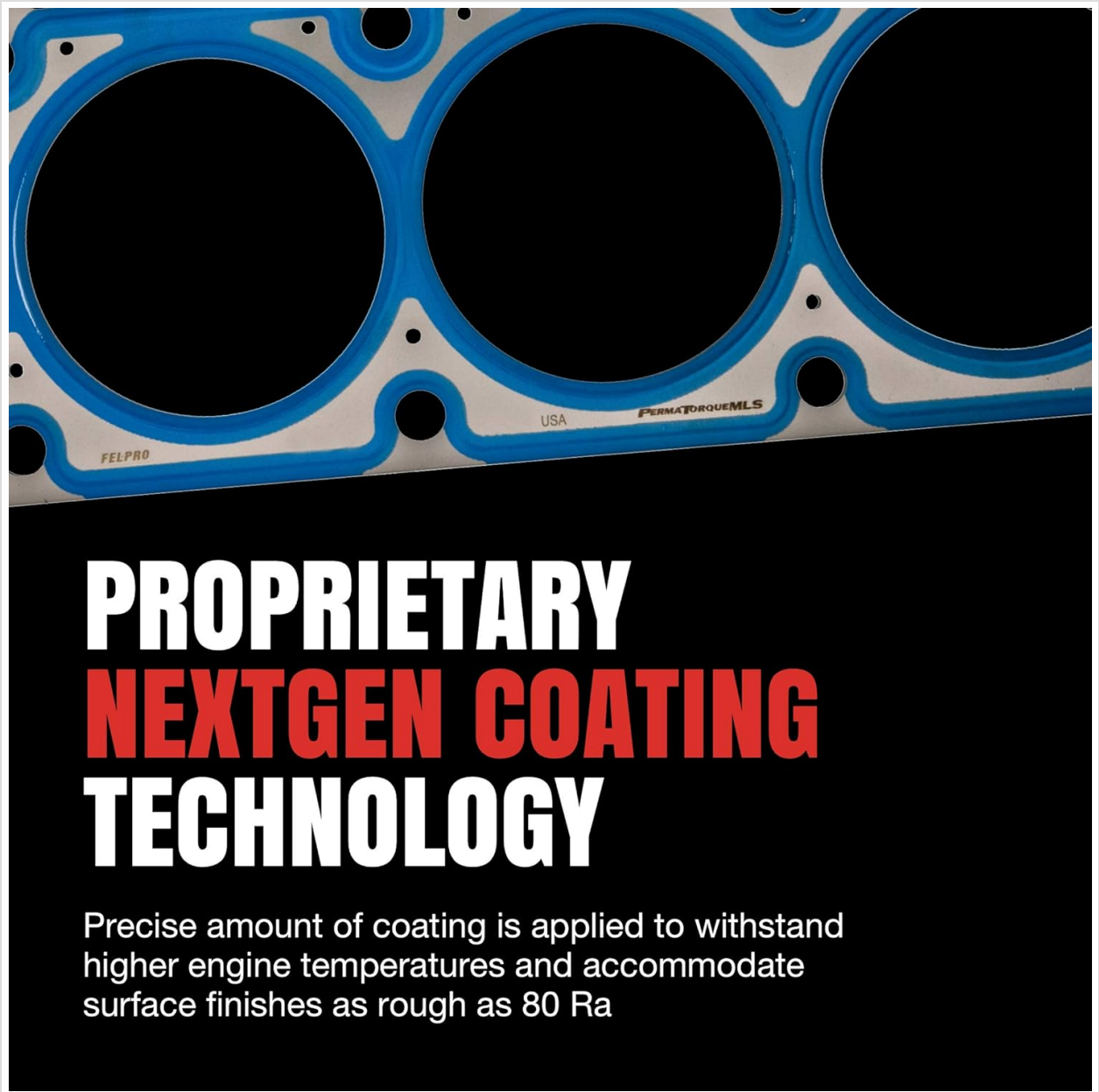


Image 3.1: A close-up view highlighting the proprietary NextGen coating technology on the gasket surface.

- **Unique Combustion Seal (LaserWeld Stopper Layer):** Exclusive LaserWeld stopper layer technology is integrated to reduce the risk of gasket damage from blow-out, ensuring a stronger and more reliable combustion seal.

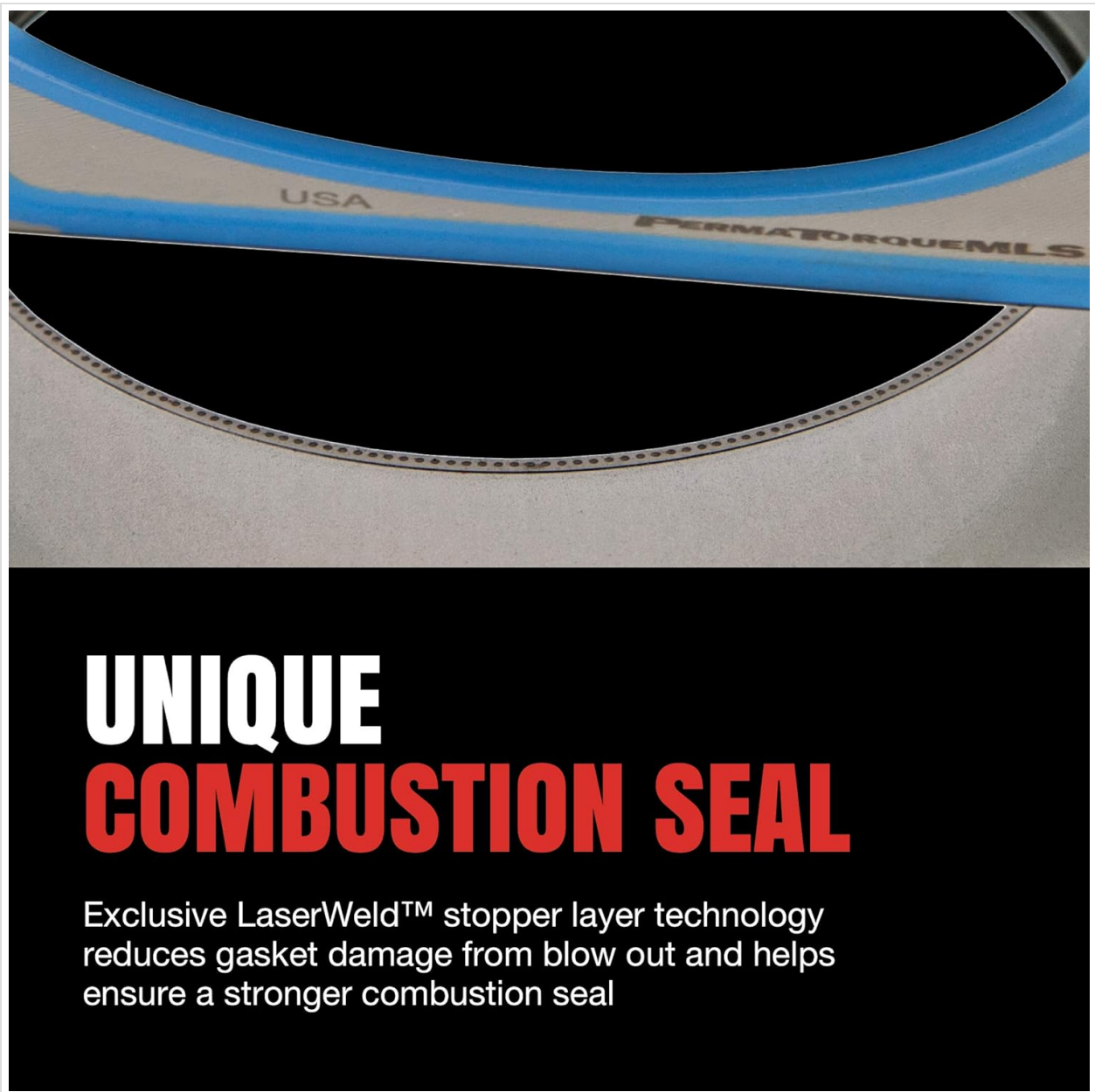


Image 3.2: Detailed view of the LaserWeld stopper layer, designed to enhance the combustion seal.

- **Multi-Layered Steel Construction:** The gasket is constructed with multiple layers of stainless steel. This design helps maintain consistent sealing stress and accommodates head lift, which can occur under extreme engine conditions.

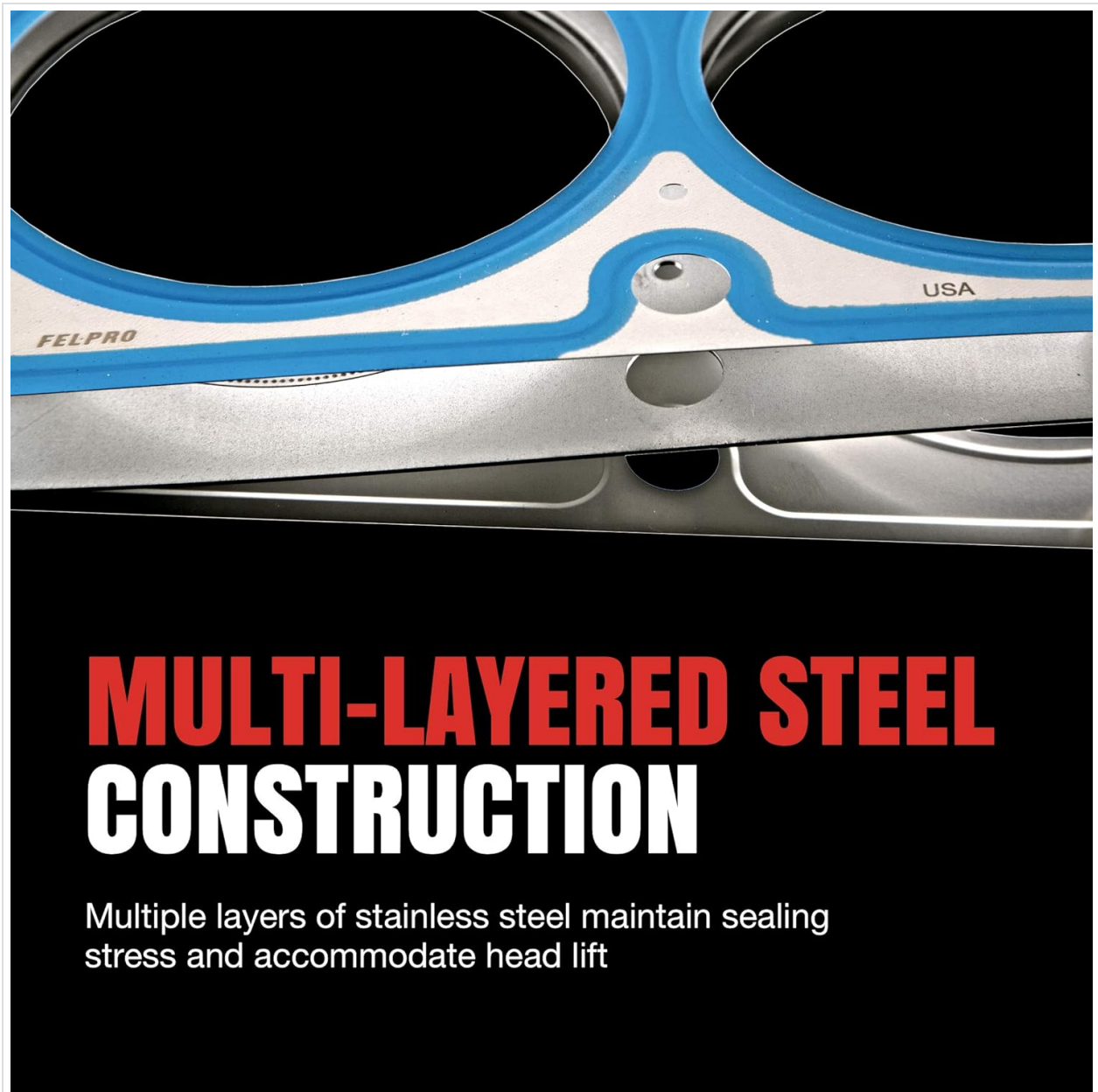


Image 3.3: An illustration showing the multi-layered steel construction of the head gasket.

- **Superior Embossed Sealing Beads:** Precise embossed sealing beads are strategically placed at vital areas to eliminate potential leak paths, ensuring a comprehensive seal.
- **Designed for Imperfect Sealing Surfaces:** This gasket is specifically engineered and manufactured for the repair environment, where sealing surfaces may not be perfectly flat. Its design helps to effectively seal these imperfect surfaces.



Image 3.4: The head gasket positioned on an engine block, demonstrating its ability to seal imperfect surfaces.

4. SETUP AND INSTALLATION

Installation of a head gasket is a complex procedure that requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a certified automotive technician.

4.1. Pre-Installation Considerations

- **Surface Preparation:** Ensure that both the engine block and cylinder head mating surfaces are thoroughly cleaned and free of old gasket material, debris, oil, and coolant. Surface flatness should be checked according to manufacturer specifications.



Image 4.1: A close-up of a meticulously cleaned engine block surface, essential for proper gasket sealing.

- **Component Inspection:** Inspect the cylinder head and engine block for any cracks, warpage, or damage that could compromise the seal. Address any issues before proceeding.
- **Torque Specifications:** Always follow the vehicle manufacturer's specific torque specifications and tightening sequence for cylinder head bolts. Incorrect torque can lead to gasket failure.

4.2. Gasket Placement

Carefully place the FEL-PRO 26223 PT Head Gasket onto the engine block, ensuring proper alignment with all bolt holes and fluid passages. Avoid bending or damaging the gasket during placement.



Image 4.2: A technician carefully positioning a head gasket onto an engine block during installation.

4.3. Informational Video

For a visual overview of Fel-Pro PermaTorque MLS Head Gaskets and their design, please watch the following video:

Video 4.3: An informational video detailing the features and benefits of Fel-Pro PermaTorque MLS Head Gaskets, including their design for real-world sealing challenges.

5. OPERATING PRINCIPLES

Once installed, the head gasket forms a critical seal that allows the engine to operate efficiently. It withstands extreme pressures and temperatures generated during combustion, preventing gases from escaping and maintaining the separation of engine oil and coolant passages. The multi-layered steel construction and specialized coatings work together to adapt to engine expansion and contraction, ensuring a consistent seal throughout the engine's operation.

6. MAINTENANCE

While head gaskets themselves do not require routine maintenance, their longevity is directly tied to overall engine health and proper cooling system function. To maximize the lifespan of your head gasket and engine:

- Regularly check and maintain proper coolant levels and quality.
- Ensure the cooling system (radiator, thermostat, water pump, hoses) is in good working order to prevent engine overheating.
- Address any engine performance issues, such as misfires or unusual exhaust smoke, promptly.
- Adhere to recommended engine oil change intervals and use the correct oil type.

7. TROUBLESHOOTING

A failing head gasket can lead to various engine problems. Common symptoms that may indicate a head gasket issue include:

- **Engine Overheating:** Persistent overheating, even after checking coolant levels and the cooling system.
- **White Smoke from Exhaust:** Indicates coolant burning in the combustion chamber.
- **Sweet Smell from Exhaust:** Characteristic odor of burning coolant.
- **Coolant Loss:** Unexplained reduction in coolant level without visible external leaks.
- **Oil Contamination:** Milky white discoloration in the engine oil (often referred to as 'milkshake' oil) due to coolant mixing with oil.
- **External Leaks:** Visible leaks of oil or coolant from the cylinder head/block mating surface.



Image 7.1: A vehicle with smoke emanating from the engine bay, a potential sign of a head gasket failure or other engine issue.

If you experience any of these symptoms, it is crucial to have your vehicle inspected by a qualified mechanic immediately to prevent further engine damage.

8. SPECIFICATIONS

Detailed specifications for the FEL-PRO 26223 PT Head Gasket are provided below:

Specification	Value
Brand	Fel-Pro
Model Number	26223PT
Material	Stainless Steel
Item Weight	10.2 ounces
Product Dimensions	22 x 14.8 x 0.2 inches
Unit Count	1.0 Count
UPC	614046833630
ASIN	B000HUDURI

9. IMPORTANT NOTES

- Always ensure the correct part is selected for your specific vehicle application.
- Professional installation is strongly recommended due to the complexity and critical nature of head gasket replacement.
- Refer to your vehicle's official service manual for detailed installation procedures, torque specifications, and any specific requirements.

