

INSIDE SEALING

GM 6.6L DURAMAX DIESEL EDITION

SIMPLIFYING HEAD GASKET SELECTION

APPLICATIONS:

Chevrolet/GMC ¾- and 1-Ton Trucks & Vans
6.6L 402 OHV V8 Turbo-Diesel 103mm Bore

PROBLEM: COMPLAINTS RELATED TO REPLACEMENT HEAD GASKETS

Developed in partnership by General Motors and Isuzu, the GM 6.6L Duramax turbo diesel is one of the most popular, powerful and reliable engines for a broad range of medium-duty applications. It can also be a time-consuming and somewhat risky challenge for engine repair professionals, who face a confusing array of engine variations and production head gasket designs.



The OE manufacturer supplies five different Cyl. Head Gasket grades: A, B, C, Block Over-Bored, Block Over-Bored and Deck Milled. To identify each, the OE uses a "Hole" & "Slot" system as illustrated below.
Fel-Pro Engineers have designed two grades (.037" and .047" Thick) to function in place of the five offered by OE. The new Fel-Pro PermaTorqueMLS Cyl. Head Gasket part numbers are ink stamped to identify their coverage corresponding to OE.

OE GRADE'S:	A	B	C	Block Over-Bored	Block Over-Bored and Deck Milled
Old Fel-Pro Part No's:	26269PT (LH) 26270PT (RH) 26269PT1 (LH) 26269PT1 (LH)	26271PT (LH) 26272PT (RH) 26271PT1 (LH) 26272PT1 (RH)	26273PT (LH) 26274PT (RH) 26273PT1 (LH) 26274PT1 (RH)	N/A	N/A
New Fel-Pro PermaTorqueMLS Part No's:	26401PT (LH) 26402PT (RH) .037" Thick	26401PT (LH) 26402PT (RH) .037" Thick	26401PT (LH) 26402PT (RH) .037" Thick	26401PT (LH) 26402PT (RH) .037" Thick	26405PT (LH) 26406PT (RH) .047" Thick
Gasket Coverage (ink stamped on gasket):	"STD THK COVERS GRADES A - B - C - OVERBORE"				"OVERBORE + .010" THK"
TORQUE SPECIFICATION:	M12 Bolt - 1st Step: 50 Nm (37 lb. ft.) 2nd Step: 80 Nm (59 lb. ft.) 3rd Step: 60 Degrees 4th Step: 60 Degrees M8 Bolt - 25 Nm (18 lb. ft.)				

Multi-layer-steel construction is the one common characteristic of all five OE head gasket versions. Beyond the proven benefits of MLS technology, however, things get a lot more complex. GM and Isuzu have used two different MLS designs over the years: the first, from 2001-04 model years; then another for 2005 and newer engines. Within each of these base designs are three additional gasket grades or thicknesses. To further complicate matters, engine professionals also must choose from two separate gasket thicknesses for engines that have either been overbored or overbored and deck milled.

To help the engine professional identify these gasket variations, the OEM uses a "hole and slot" system. (See fig. 1)

SOLUTION: FEL-PRO® PERMATORQUE® MLS REPLACEMENT HEAD GASKETS – 2 THICKNESSES COVERING ALL REPAIR NEEDS

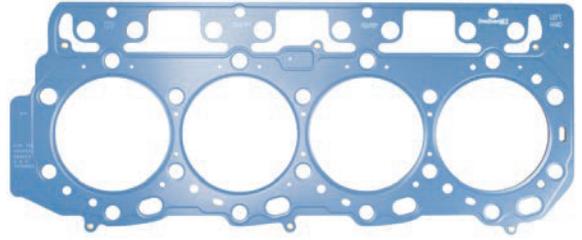
Federal-Mogul's Fel-Pro brand has introduced a highly streamlined portfolio of PermaTorqueMLS head gaskets for these applications. This new

lineup not only helps the engine professional save time and prevent confusion, but also incorporates exclusive features that address the unique requirements of the aftermarket repair environment.

Federal-Mogul now offers two designs of Fel-Pro PermaTorque MLS gaskets that cover all grades for all repair needs for 6.6L Duramax turbo diesel engines. (Please see other side.)

FEL-PRO #26401PT (LH) AND 26402PT (RH)

Accommodate all model years as well as OE grades "A," "B" and "C" and overbored blocks



FEL-PRO #26405PT (LH) AND 26406PT (RH)

.010-inch thicker gaskets accommodate blocks that have been overbored and deck milled (all grades & model years)



THE AFTERMARKET-ENHANCED FEL-PRO PERMATORQUE MLS DESIGN

These Fel-Pro PermaTorque MLS replacement head gaskets feature several design and material enhancements that are unavailable through OE or other aftermarket replacement gaskets:

- **Exclusive blue aftermarket MLS coating**
Accommodates 60 RA and higher surface finishes for superior sealability
- **Laser-welded "stopper" layer**
Seals the peak cylinder pressures often encountered in these engines
- **Dyno-proven design**
Each Fel-Pro PermaTorque MLS gasket must pass exhaustive dynamic testing in Federal-Mogul's dyno lab before release to the aftermarket

TORQUE SPECIFICATIONS: GM 6.6L DURAMAX DIESEL

M12 Bolt

- 1st Step: 50 Nm (37 lb. ft.)
- 2nd Step: 80 Nm (59 lb. ft.)
- 3rd Step: 60 Degrees
- 4th Step: 60 Degrees

M8 Bolt

25 Nm (18 lb. ft.)

