

BULLETIN #1010



POWERFORGEDpistons.com

**SPEED-PRO®
POWERFORGED® PISTONS**

NEXT GEN DUROSHIELD® COATING

With an enhanced formulation bonded into the piston surface at the atomic level, DUROSHIELD® delivers the ultimate combination of low friction and exceptional durability, even in the most critical engine environments. This technologically advanced coating is precisely applied to the piston through a computer-controlled process.

- New and improved protective formulation – Next Gen DUROSHIELD graphite coating reduces abrasive wear, increasing the anti-seizing characteristics when there is insufficient lubrication.
- Atomically bonded to the substrate, using advanced material and manufacturing processes.
- Requires no increase in skirt clearance.



A QUIETER ENGINE

When a piston reaches either end of the cylinder, it decelerates. This can cause it to slap. However, an engine equipped with skirt-coated pistons will run more quietly because the skirt coating acts as a “cushion” between the piston and cylinder wall, reducing the potential for slapping.



MORE EFFICIENCY, MORE POWER

Skirt coating reduces friction between the piston and the cylinder wall, and provides better surface lubricity in engines with extremely tight-piston-to-bore tolerances.

Speed-Pro DUROSHIELD® POWERFORGED® pistons enable improved piston-to-bore clearances which provides a more stable piston, thereby reducing leakage from the compression chamber, improving horsepower and efficiency.

- Offers even greater engine efficiency, friction reduction and horsepower gains than previous coatings, plus better NVH reduction – perfect for aggressive combustion strategies and very high temperatures.
- Significantly reduces friction across the entire RPM range.
- Helps prevent scuffing of skirt and cylinder wall.
- Prevents damage from inadequate lubrication, especially at startup.
- Improves cylinder sealing for less blow-by and more power.
- PLUS – Each piston features a window that is used to measure the exact skirt size for precise bore clearance.

SUPERIOR MATERIALS AND DESIGN

THE OPTIMAL ALLOY

Exclusive FM 4032 POWERFORGED® alloy features 12% silicon, which dramatically reduces thermal expansion, enabling engine builders to use tighter bore clearances and minimizing ring-groove and skirt wear. It is ideal for both street and racing applications.



IMPROVED DESIGN AND MANUFACTURING

Today's POWERFORGED pistons incorporate emerging technology and the the latest advancements in design and manufacturing. Next Gen DUROSHIELD® coating, PRECISION BORE™ pin holes, and TAC ring groove technology deliver all the strength, durability and horsepower that are key to increasing performance.

