MAHLE

CLEVITE ENGINE BEARINGS
BEARING MATERIALS

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CLEVITE®

→ SETTING THE STANDARD

From the beginning, Clevite has earned and maintained a reputation as the industry standard in replacement engine bearings. For daily drivers, and racers on tracks around the country, Clevite continues to be the brand of choice for engine builders. In fact, every major racing team in the nation's leading televised motorsports series uses Clevite engine bearings.

BIMETAL™ ENGINE BEARINGS

Many new OE engines are now utilizing aluminum bearings to address cost and environmental concerns. Clevite BiMetal™ engine bearings are made with a composition of aluminum silicon for excellent wear and seizure resistance, without the need for high load carrying capacity. They offer a number of quality features that rebuilders, service technicians, and vehicle owners will appreciate.

Carrying on a tradition of durability and dependability, Clevite BiMetal engine bearings feature 100% lead-free aluminum silicon. Engineered with 60% more silicon than comparable competitive replacements, they provide better conditioning of journal surfaces. This results in greater seizure resistance and better wear resistance.

Clevite BiMetal bearings are manufactured with 100% bored inside diameters for optimum surface characteristics and consistent precision. Where applicable, straight shell main bearings include an umbrella groove for improved oil control and oil pressure.

Designed to be the highest quality replacement aluminum engine bearings available, BiMetal engine bearings from Clevite set the standard.

TRIMETAL™ ENGINE BEARINGS

Whether a heavy-duty or performance, Clevite TriMetal remains the industry standard in bearings. Typically, they can withstand up to 60% higher loads and have 40% better seizure resistance than comparable competitive engine bearings. Not only do they exceed light vehicle durability requirements of 150,000 miles, they also exceed heavy vehicle durability requirements of 300,000 miles.

The quality and durability of Clevite TriMetal engine bearings provide a margin of forgiveness for vehicles that don't get maintenance service as often as they should. Think of it as "engine insurance" for a passenger car or light truck that handles tough duty and/or long miles every day.

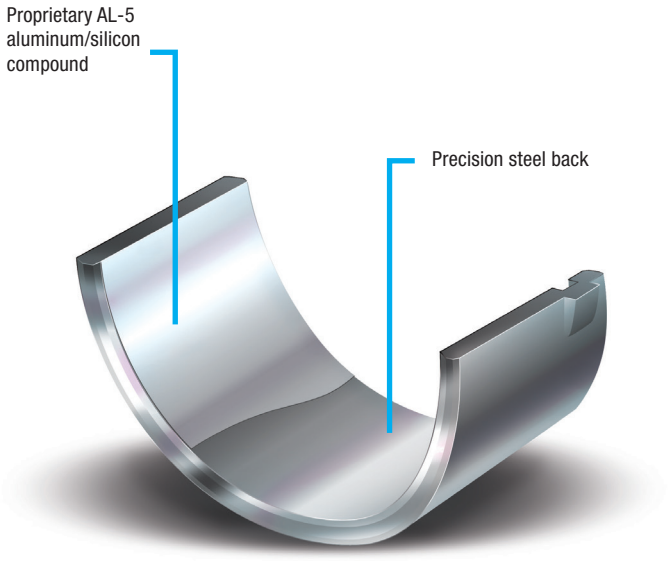
There are many attempts by competitors to match traditional Clevite bearing strength and performance. From odd alloys and underperforming sintered metal layers to skimpy nickel barrier plating, it goes on. And engine builders around the world still prefer Clevite TriMetal – the patented original.

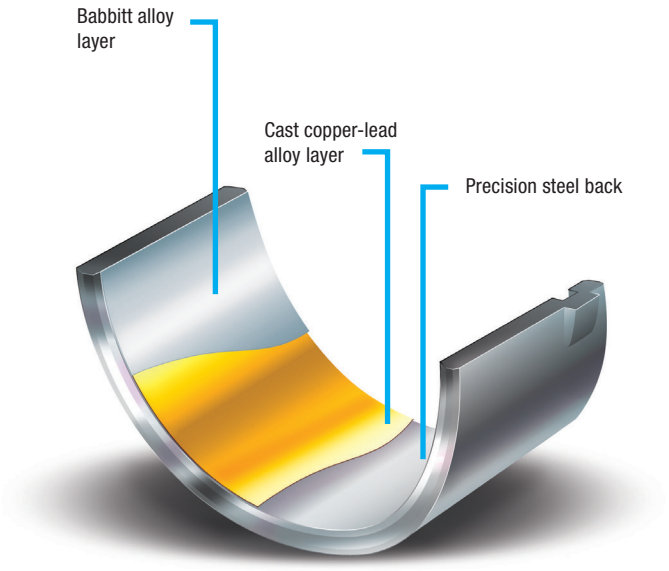
IN RACING ENGINES, THE BEST BOTTOM END BEGINS WITH CLEVITE® TRIMETAL™ BEARINGS

There's a reason why more racing teams in every major motor sports organization prefer Clevite engine bearings. Because they know they can count on them for more laps or more 1/4-mile passes. Teams from NASCAR, ARCA, NHRA, IHRA and other organizations understand the value of using Clevite quality.

Clevite offers the most complete line of performance engine bearings in the market. The top teams use the superior TriMetal design. For conformability, embedability, low friction and resistance to fatigue, they have no equal.

In addition to structural enhancements, Clevite TriMetal performance engine bearings feature engineered coatings to reduce friction and increase bearing life. Engine builders can count on Clevite TriMetal for strength, durability and the newest developments in coatings technology.





BEARING FACTORS	BIMETAL	TRIMETAL
Application	General use in passenger cars and light commercial vehicles, especially OE engines designed for aluminum bearings.	Ideal for rebuilding engines where more demanding use is anticipated, such as heavy duty, motorsports or street performance.
Wear Resistance	Relatively harder aluminum alloy wears well, interacts closely with journal surfaces for strength.	Babbitt surface engineered to utilize stronger copper layer under it, thus minimizing wear.
Embedability		Babbitt alloy easily absorbs particles, has low melting point.
Conformability	Alloy engineered for toughness to conform while preserving strength.	Babbitt and copper-lead alloy adapt to shape errors.
Compatibility	Greater silicon content conditions bearing journal surfaces.	Babbitt layer adapts to the journal surfaces, has natural lubricity.
Seizure Resistance	Silicon moderates journal surfaces to maintain oil film for normal operating conditions.	Layered design and copper-lead alloy offer unmatched strength and lubricity for demanding use.
Strength	10,000 psi load carrying capability	12,000 psi load carrying capability

→ SECOND TO NONE

The Clevite commitment to excellence began with the original cast copper-lead engine bearing patented decades ago. Though engine technology continues to change, this is the bearing that still provides ultimate quality, strength and durability for everyday vehicles as well as superior load carrying capability for performance and heavy duty engines.

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