



## PLANAR OXYGEN SENSORS

ES Series Part Numbers



### OUR O<sub>2</sub> EQUALS OE. HOW REFRESHING.

As one of the leading suppliers of oxygen sensor technology since 1978, Delphi planar technology is the result of our OE and aftermarket engineers partnering together to develop the most innovative oxygen sensors for the aftermarket.

How? Capitalizing on our OE technology, we developed a smarter solution with wider aftermarket coverage for not only older, but late model applications as well.

### SMART ENGINEERING.

Delphi planar technology helps reduce emissions... making your customer's automobile greener. Delphi oxygen sensors:

- Lead the industry in contamination resistance to silicone, phosphorous and other fuel/oil additives due to its patented protective sensor coating. Contaminated sensors can trigger "check engine lights" and cause engines to run too rich, burning up to 25% in additional fuel, as well as sending excess carbon dioxide,

hydrocarbon and nitrogen oxide emission into the atmosphere.

- Deliver the industry's fastest light-off time (LOT) at six seconds for quicker closed-loop activation. The closest competitor is 10 – 12 seconds, allowing 40% – 50% more harmful cold-start emissions to enter the atmosphere.
- Use a proprietary "dry to touch" anti-seize compound for faster, no mess installations. The compound eliminates the potential for contamination and triggering an unintended "check engine light" from the wet, anti-seize compounds used on competitor products.
- Are validated for use with most fuel types and additives, including lifetime operation with ethanol blended fuels (i.e., E85).
- Are tested for durability, performance and environmental compliance; up to 15 years/150,000 miles.



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### SMARTER PART.

Plus Delphi oxygen sensors provide your shop with growth opportunities:

- On average, 3% of all vehicles annually require a replacement oxygen sensor. Each vehicle is equipped with at least two, and sometimes up to six sensors.
- More than 70% of the vehicles on the road today can be upgraded to planar sensor technology.
- Delphi planar oxygen sensors feature OE connectors and wire length within three inches of OE specifications. Nearly three-quarters of the line is the exact OE length for easier installations, less comebacks.

### MORE COVERAGE.

In addition, Delphi planar oxygen sensors are configured and designed to replace previous conical sensor designs. In doing so, Delphi has significantly increased coverage, but decreased SKUs to optimize your selection process during repair. We call it intelligent SKU management... a simpler and quicker way to repair. Delphi planar oxygen sensors:

- Offer three times more planar coverage than our closest competitor with technology engineered to outlast and outperform previous sensor designs.
- Maximize coverage and shelf space, while eliminating fit and connector length concerns due to consolidated part offering, 428 SKUs.



### FEATURES

### BENEFITS

OE connectors and wire lengths within three inches of OE specifications	<ul style="list-style-type: none"> <li>• Easier installation without splicing or too long lead interference with other components</li> <li>• Resists high temperatures, vibration damage and wire corrosion to protect signal accuracy, and long life</li> </ul>
Patented sensors construction and design	<ul style="list-style-type: none"> <li>• Long lasting, reliable operation during sensor life</li> <li>• Industry's fastest light-off times to reduce cold-start emissions</li> <li>• Improved fuel economy over aging sensors</li> </ul>
Unique sensor coatings	<ul style="list-style-type: none"> <li>• Protects elements from contaminants which can trigger "check engine lights" and premature sensor failure</li> <li>• Validated for lifetime operation with E85 and other alcohol-based fuels</li> </ul>
Planar technology	<ul style="list-style-type: none"> <li>• Allows for intelligent SKU management</li> <li>• Maximum coverage on the shelf with fewer SKUs</li> </ul>