

### MADE TO STAND THE TEST OF TIME™



Backed by our LIMITED LIFETIME WARRANTY StandardBlueStreak.com



### THE BLUE STREAK LEGACY: A REPUTATION OF EXCELLENCE

Made to stand the test of time, Blue Streak® by Standard® has always been known for quality and durability. For proof, we surveyed automotive service professionals on how to best describe Blue Streak® by Standard. Here's what we found:



7 out of 10 automotive professionals surveyed equate Blue Streak with "Quality", "Durability" and "Premium"

## **BLUE STREAK TODAY: STRONGER THAN EVER**

Building on our rich history of quality and durability, we're proud to say that Blue Streak is stronger than ever. Our Blue Streak<sup>®</sup> program includes our original Blue Streak<sup>®</sup> products such as points, condensers, caps, and rotors, as well as our new heavier-duty, longer lasting coils that are engineered and manufactured at our certified facility in Bialystok, Poland.



# Backed by our LIMITED LIFETIME WARRANTY

We are so confident in the durability of our Blue Streak® by Standard® products, that we've backed every part with our Limited Lifetime Warranty.





# BASIC MANUFACTURING AT OUR STATE-OF-THE-ART FACILITY

Our ISO/TS16949 and ISO14000-certified facility in Bialystok, Poland, is dedicated to the highest quality manufacturing. Spanning 105,000 square feet, the facility serves as a basic design and engineering center for our Blue Streak® ignition coils. The facility employs lean manufacturing methods such as the 5S philosophy and features a vertically integrated manufacturing process with multi-spindle winding, injection molding, potting, curing, and welding. At the end of the day, the parts that leave our SMP Poland facility are manufactured for superior performance and durability.





End-of-life testing confirms polarity and continuity to ensure superior function

Semi-automatic bobbin winding speeds up the process



All Blue Streak<sup>®</sup> ignition coils are laser etched with the Blue Streak<sup>®</sup> logo

### **HEAVIER-DUTY IGNITION COILS**

Blue Streak® by Standard's new heavier-duty ignition coils are the product of superior design, manufacturing, and testing. For example, take our UF303, one of the many new heavier-duty ignition coils in our line:

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#### Advanced thermoplastic coil connector ensures proper connection and resists fractures caused by heat and thermal cycling

### **Optimum wire distribution**

developed by extensive testing ensures superior functional parameters and durability

> Copper wires using higher insulation grade ensure heat resistance and prevent high voltage breakdown

Isolator manufactured using high voltage-resistant thermoplastics to prevent premature coil failure

> High-temp boot prevents high-voltage leaks, while stainless-steel spring with internal ferrite noise suppressor prevents radiofrequency interference (RFI)

Primary (23 gauge) and Secondary (43 gauge) copper wire ensure high-voltage availability for peak performance while reinforced bobbins prevent voltage flashover for extended service life

#### High-impact housing material

ensures superior bond to epoxy for longer life in all operating conditions

Internal, neodymium permanent magnet core surrounded by grain-oriented, magnetic-laminated steel maximizes high-voltage output at all engine RPMs and loads

Tested at extreme engine performance condition at 7200 RPM

Engineered and tested to match or exceed OE for spark energy output, impedance, and durability

# **BLUE STREAK OUTPERFORMS THE OE**

All products manufactured at our SMP Poland facility undergo extensive measurement and life testing, in addition to a full range of environmental analysis that includes thermal shocks, thermal cycling, and vibration tests, just to name a few. To see what goes into our ignition coil testing, take a look at this competitor comparison between our UF303 and the OE:

### **OE COMPARISON ANALYSIS**

	TEST STAGES			
	Stage 1: 300-Hour Life Test	Stage 2: 100 Thermal cycles	Stage 3: 24-Hour Life Test (with high parameters)	Stage 4: 10 Additional Thermal Shocks
UF303	PASSED	PASSED	PASSED	PASSED
OE	FAILED			

### **TESTING TAKEAWAYS**

- The two OE coils tested short circuited after 68 hours and 140 hours, respectively
- life test, and 10 thermal shocks
- Compared to the OE, Blue Streak coils have 9% higher spark energy and 18% higher secondary • voltage, which leads to better combustion of fuel mixture and reduced exhaust gas discharge

66 As testing shows, we've designed our Blue Streak Ignition Coils for superior performance and durability under the harshest conditions.

The two Blue Streak coils tested passed the 300-hour life test as well as 100 thermal cycles, a 24-hour

Tomasz Michalik Technical Director - SMP Bialystok, Poland

# **BLUE STREAK VS OE COIL COMPARISON**

To see what makes our Blue Streak<sup>®</sup> ignition coils superior, we conducted a visual cutaway comparison against the OE. Here's what we found:

#### OE





**UF303** 

Note: OE coil pin fell out during cutting.

**OE:** 8 primary winding sections.

**Blue Streak:** With 10 primary winding sections, our design reduces the height of each section's winding to decrease the risk of breakage between sections.

**OE:** Uneven number of winding turns.

**Blue Streak:** Our barrel winding distribution precisely reduces the number of turns in the first and last two sections to reduce the voltage gradient. When combined with our higher G2 insulation grade, our winding distribution lowers the risk of breakage within the winding.



**Blue Streak:** When compared to common "amber/yellow" epoxy systems, our "black" epoxy system features nearly 40% higher insulation resistance to voltage breakdown.



Visit **StandardBlueStreak.com** or scan the QR code for more info.



