

HIGH OEM FAILURE RATES MAKE IGNITION COILS A KEY AFTERMARKET CATEGORY



Today's advanced systems can push an ignition coil to the brink of destruction.

- High resistance overworks a coil
- Coils now operate in a harsher environment
- Ignition coils are mandatory replacement parts

WE BRING THE TOTAL COIL PACKAGE

800+

We offer more than 800 ignition coils

99%

99% Aftermarket-Leading Coverage

90%

We manufacture 90% of what we sell



THE NAPA® ECHLIN® ADVANTAGE

We have several years to evaluate the parts, identify the issues and correct those OEM problems.

OEM FLAWS

Our engineers identify the OEM flaws

NAPA® ECHLIN® IMPROVEMENTS

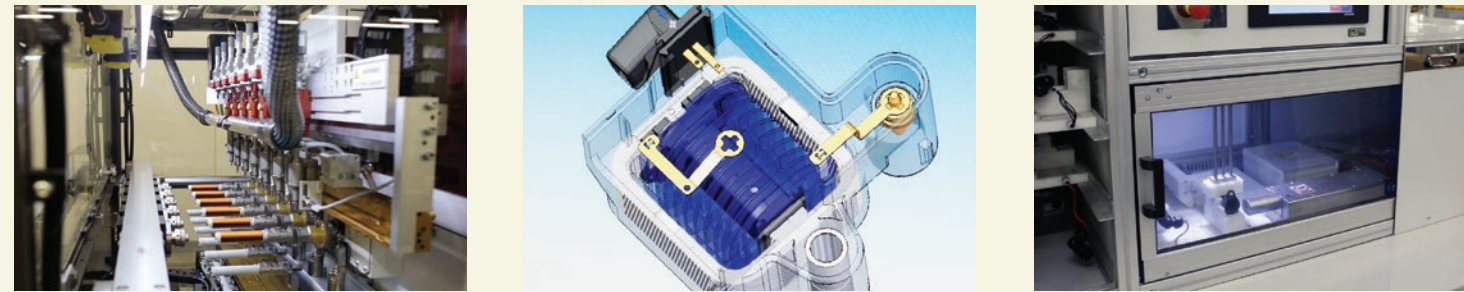
We design the NAPA® Echlin® coil to overcome these flaws

NAPA® ECHLIN® RELIABILITY

We manufacture a more reliable, better performing ignition coil

MANUFACTURING CAPABILITIES

Our most advanced engineering, design and manufacturing facility



In 2006, we acquired an OE ignition coil company in Bialystok, Poland. This plant had been manufacturing coils for the OE since 1979.

- Our Poland facility is now 108,000 sq. ft. and IATF 16949-certified
- We manufacture 6 million coils each year
- We introduce 110+ new parts annually
- More than 750 employees including 60+ resident engineers
- Highest quality coils for optimal performance and maximum durability

NAPA® ECHLIN® INNOVATIONS

ELASTOMER OVERMOLD

The OE polypropylene cover on steel core leads to epoxy cracking, moisture intrusion, degraded performance and eventual coil failure

The NAPA® Echlin® design overmolds the iron core with TPE elastomer preserving coil integrity

NAPA® Echlin® has no cracks after thermal cycle testing

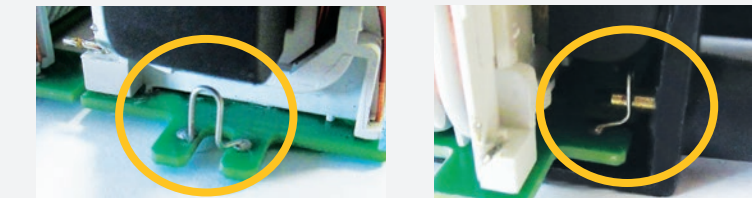


IC418 and similar coils

SPRING TERMINAL DESIGN

The OE metal terminal deforms while the epoxy cures causing the high voltage connection to fail

NAPA® Echlin® engineering features a spring terminal design to maintain a solid high voltage connection for top performance and long service life



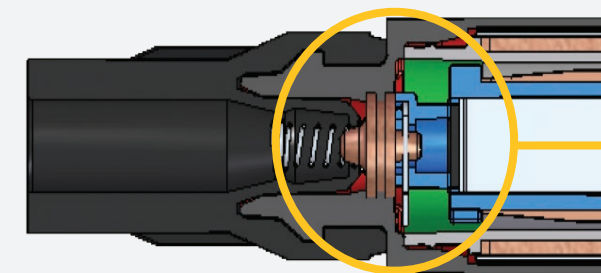
IC418 and similar coils

NAPA® ECHLIN® MAINTAINS A SOLID HIGH VOLTAGE CONNECTION

ELIMINATE O-RING AND TWO-PIECE HOUSING

When the OE O-ring breaks down it allows moisture intrusion which impedes performance and shortens coil life

The NAPA® Echlin® one-piece design with no O-ring housing prevents moisture intrusion, ensuring peak coil performance and long service life



NAPA® Echlin® designs improvements to numerous OE pencil coils

NAPA® ECHLIN® DESIGN HAS NO MOISTURE INTRUSION

OE COMPARISON ANALYSIS

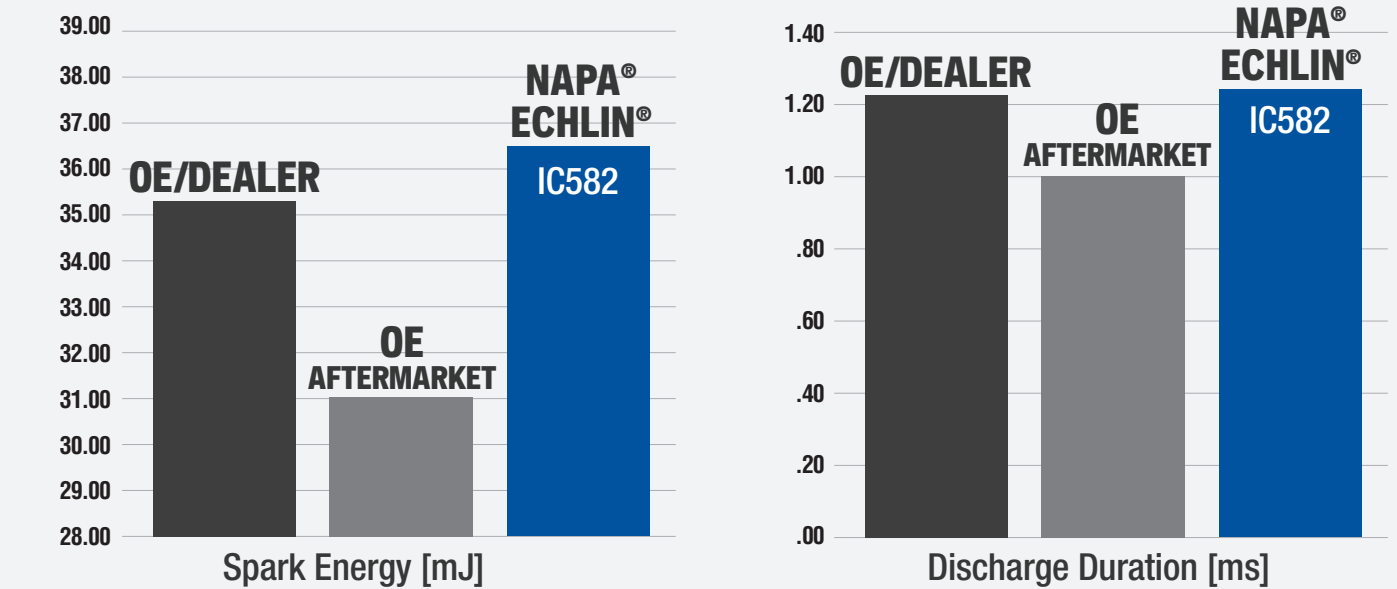
	TEST STAGES			
	Stage 1: 300-Hour Life Test	Stage 2: 100 Thermal cycles	Stage 3: 24-Hour Life Test (with high parameters)	Stage 4: 10 Additional Thermal Shocks
NAPA ECHLIN® IC414	PASSED	PASSED	PASSED	PASSED
OE	FAILED			

Source: NAPA® Echlin® Poland Testing Lab, 2018

The NAPA® Echlin® coils passed every extreme test while both OE coils tested failed in stage 1. NAPA® Echlin® coils have 9% higher spark energy and 18% higher secondary voltage for better combustion and reduced exhaust gas discharge.

THE TEST RESULTS ARE IN

NAPA® Echlin® coils outperform the OE & OE aftermarket coils with more spark energy and longer lasting discharge to deliver improved performance and fuel economy.



Source: NAPA® Echlin® Poland Testing Lab, 2018

