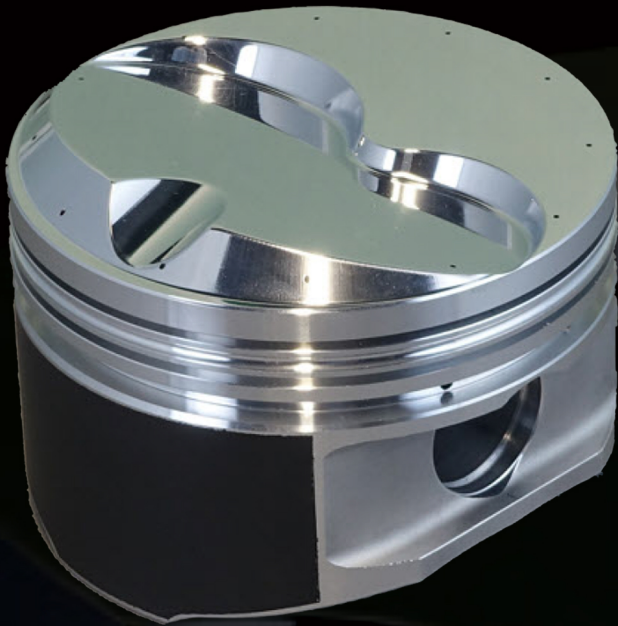


**NOW AVAILABLE AT UNITED ENGINE & MACHINE INC.**



## **SKIRT COATING OPTION**



### **Benefits**

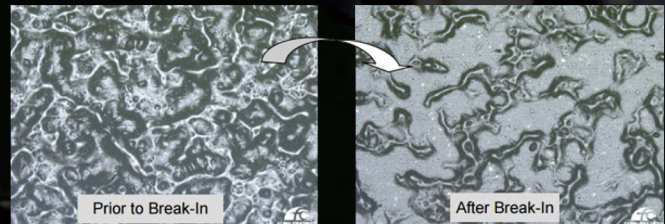
- ✚ The cylinder bore can be built very tight
- ✚ The coating is then honed to the ideal barrel shape for each bore
- ✚ Wear on the coating stops when the oil film is optimized – Stribeck Curves
- ✚ A stabilized oil film prevents boundary lubrication
- ✚ APC finds and maintains the Ideal Geometry under Running Conditions
- ✚ Clearance is Minimized – only enough room for ideal oil film
- ✚ With minimized clearance less slap and rock improves ring seal and life
- ✚ Shock loads and degradation in piston/rod/bearing assembly is reduced

### **What is an abradable powder coating?**

Line2Line's abradable powder coating (APC™) is polymer based and engineered to be applied thicker than liquid coatings in order to safely reduce clearance.

### **How It Works**

The coating is designed to hone in to the ideal oil film clearance during break-in and then stop wearing. Under operating conditions, if the piston expands further the coating will again burnish in to safely maintain an ideal minimum oil film clearance. The piston now operates at a tighter running clearance, resulting in less piston rock and improving ring seal. Line2Line's APC is especially beneficial for pistons made from 2618 alloy, which require a larger clearance due to a high expansion rate. The main benefits of the coating are to maintain a stable oil film, prevent scuffing and keep the piston square in the bore.



### **APC Allows**

- ✚ Break-in of Texture - Hones Mating components to best fit during initial operation
- ✚ Break-in event accounts for manufacturing variation, thermal distortions, operating stresses and deformations
- ✚ Optimizes and Stabilizes Oil Film for Lowest Friction (Stribeck)
- ✚ Safely Minimizes Clearance - Performance and Durability
- ✚ Unlike Thin Liquid Coatings – APC fine tunes the geometry of the fit

**Coating is done in-house with licensed equipment and materials from Line2Line for fast shipping.**

**UNITED ENGINE & MACHINE INC. - 1040 Corbett St. Carson City, NV 89706 - 800-648-7970 - [www.uempistons.com](http://www.uempistons.com)**