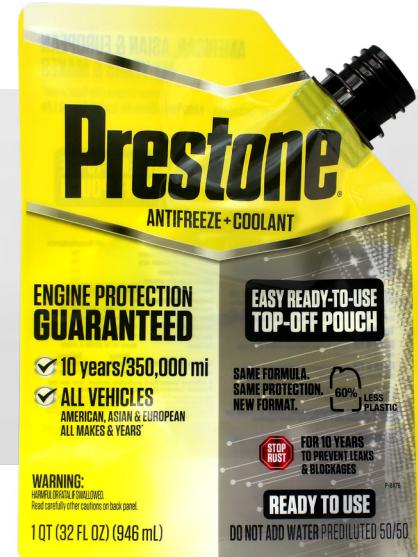


# From Rigid Bottles to Spouted Pouches: Innovation that Transforms Packaging and Performance



## An Opportunity for Partnership

As a trusted leader in automotive fluids, **Prestone** set out to modernize its packaging with an innovative design that lowers environmental impact, improves cost efficiency and strengthens product safety. The company saw an opportunity to move away from rigid bottles for certain applications and adopt large-format spouted pouches that use less material, offer greater portability and convenience while significantly reducing transportation costs.

**The Challenge:** Design a pouch that could safely hold automotive chemicals, integrate a child-resistant closure (CRC) and maintain seal integrity while delivering a stronger brand and user experience. Prestone turned to pouch converter [Zacros America](#) and closure expert [Hoffer Plastics](#) to make it possible.

## Innovation in Action

A key component of the collaboration was Hoffer Plastics' Trust-T-Lok™ P22 spout, purpose-built to deliver safety, performance and production efficiency in large-format spouted pouch systems for automotive fluids.

**Child-Resistant Closure (CRC):** Designed to meet the highest safety standards in automotive chemical packaging, the P22 spout provides consistent torque and secure engagement to deliver reliable child resistance and protect consumers.

**Leak Prevention and Tamper Evidence:** Hoffer's precision-engineered six-pitch design ensures a tight, repeatable seal that prevents leaks and provides tamper-evident performance to preserve product integrity throughout use.

**Operational Efficiency and Compatibility:** The P22 spout's universal neck finish eliminates the need for custom tooling or equipment modifications, reducing downtime, accelerating changeovers and optimizing manufacturing efficiency.

The Trust-T-Lok™ P22 spout was designed to meet both brand and consumer expectations, offering a more sustainable large-format spouted pouch system without compromising ease of use.

*"Partnering with Hoffer, we helped Prestone bring a breakthrough packaging concept to market on an accelerated timeline. Large-format spouted pouches are shaping the future of sustainable packaging, and this collaboration brought that vision to life. Combining Hoffer's spout technology with our pouch-making expertise, we delivered a safe, convenient and sustainable solution that met Prestone's goals while reducing environmental impact and enhancing consumer appeal."*

**John Patterson**

*Business Development Manager, Zacros America*



## Delivering Measurable Results

Prestone's debut of large-format flexible spouted pouches represents more than a packaging update. ***It's a game-changing category shift from rigid bottles to smarter, safer and more sustainable packaging.***

This packaging breakthrough drives measurable business impact across the value chain:

***Transportation savings*** – consolidated up to ***26 truckloads*** of rigid bottles ***into just one truckload*** of flexible spouted pouches.

***Operational Efficiency*** – reduced material use, lower energy consumption and simpler, faster production compared to rigid bottles.

***Sustainability gains*** – ***significant reduction in CO<sub>2</sub> emissions and less plastic going to landfills.***

Powered by Hoffer Plastics' Trust-T-Lok™ P22 spout with six-pitch design and Zacros' pouch-making expertise, this collaboration demonstrates how packaging innovation can deliver on all fronts: ***safety, cost savings, ease of use and reduced environmental impact – all while building consumer trust and preference.***

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