



Do you have condensation in your headlamps?

The solution is OptiClear™.

Humidity. Highly integrated headlamp designs. Short light cycle time. More efficient, cooler-operating LED lights. These factors add up to big problems for the automotive industry when water vapor condenses in the headlamp. Besides spoiling vehicle appearance and frustrating consumers, condensation can affect road visibility, create potential safety risks, and lead to costly warranty claims. OEMs and their suppliers have been searching for the right solution, but nothing has proven effective over the long term – *until now*.



Building on decades of experience providing innovative desiccant solutions for a number of automotive applications, Flow Dry Technology engineered the OptiClear Headlamp Anti-Condensation Solution to end the issues associated with moisture in headlamps. OptiClear is the only desiccant based anti-condensation solution which is proven, easy to install for OEMs and aftermarket, designed to perform over the life of the headlamp, and self-regenerating.

OptiClear offers lowest total cost of ownership.

Warranty claims are expensive. As the only truly effective, long-term performing solution that addresses customer complaints regarding condensation in headlamps, **OptiClear** offers the lowest total cost of ownership and improves the customer experience.

OptiClear was designed to last.

Air flow is controlled to maximize desiccant effectiveness and ensure self-regeneration. The passively operating device is designed to perform consistently over the life of the headlamp, which provides a long-term solution as compared to anti-condensation coatings and vent membranes.

OptiClear was designed for easy installation.

Whether installed on the assembly line or in the dealership shop, **OptiClear** installs quickly and

securely with adhesive gaskets and snap features. Replacement is just as quick, should it ever be necessary. No complexity or chemicals.

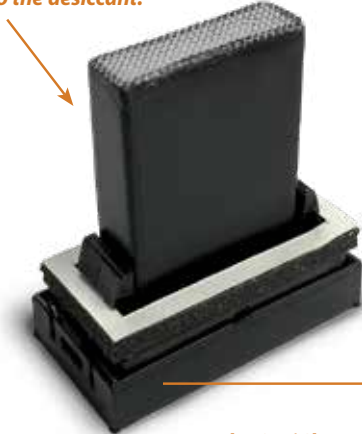
OptiClear is a proven solution.

Rigorous third-party testing has demonstrated that **OptiClear** passes full OEM headlamp specification testing (GMW 14906). This performance translates to reduced warranty claims for OEMs and fewer complaints or safety concerns for consumers.

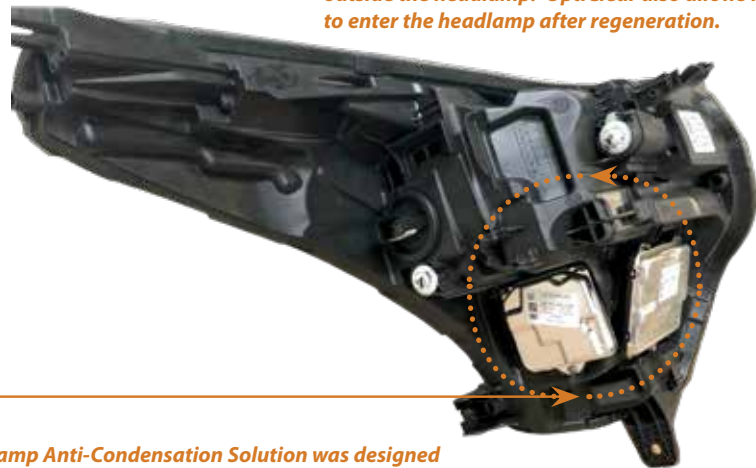
OptiClear was designed to be flexible.

OptiClear was designed to defend against condensation in most headlamp models. However, if necessary, **OptiClear** can be easily adapted to future vehicle platforms and headlamp designs. **OptiClear** was intentionally developed to be easily scalable and configurable to fit various headlamp geometries.

Water vapor inside the headlamp is adsorbed onto the desiccant.



When self-regenerating, OptiClear vents water vapor outside the headlamp. OptiClear also allows inlet air to enter the headlamp after regeneration.



The OptiClear Headlamp Anti-Condensation Solution was designed to be easily installed into existing vent openings on most headlamps. OptiClear technology can also be designed into future headlamp models.

Flow Dry Technology is a leading adsorbent manufacturer headquartered in Brookville, Ohio, with operations in Europe and China. Flow Dry provides a full line of standard desiccant products and the capability to custom design innovative solutions to dry, seal and protect our customers' products.

To learn more about our innovative OptiClear Headlamp Anti-Condensation Solution, please visit: <https://FlowDry.com/OptiClear>



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