EMPRO™ EvapTrap™ MX
Air Intake System Hydrocarbon Trap

EvapTrap MX is a patented, high capacity hydrocarbon absorber technology that is applied directly onto the surface of the air intake box. The technology is aimed at helping OEMs meet stringent “zero evap” standards with minimal impact on vehicle design and performance.

California LEV III and U.S. Tier 3 standards require OEMs to meet a new Zero Evap Standard. This means OEMs must meet a near zero diurnal and running lost requirement, the most stringent standards of any region.

Air Intake System is a source of evaporative emissions
Hydrocarbons in the fuel from the engine can leak out through the air intake system when the car is not running. Traditional solutions involve adding an activated carbon honeycomb or filter to the air intake box to adsorb the hydrocarbons. However these increase the backpressure, reducing horsepower and fuel economy. Further they often have design limitations that require OEMs to design around the solution.

Hydrocarbon adsorption without adding backpressure
BASF has developed an innovative technology that adapts to any air intake design and enables designers to utilize the aerodynamics of the intake system for superior drivability. This solution does not add backpressure.

Performance advantages
EvapTrap MX offers significant value to automakers.
- Maximize hydrocarbon capacity for all types of fuels
- Proven adhesion durability to all air intake box materials including polypropylene
- No increase in backpressure
- Design flexibility to adapt to unique geometries
- Tamper-proof coating

Example of Air Intake System Part Coated with EvapTrap MX

Air Intake System with EvapTrap™ MX

Engine start
Hydrocarbons (HC) are desorbed and combusted in engine

Engine off
Hydrocarbons (HC) are adsorbed by EvapTrap™ MX
EMPRO™ Solutions
We are proud to introduce EMPRO as the new brand for BASF Mobile Emissions Catalysts. The EMPRO brand represents what makes BASF unique as a value-added solutions provider. As the global leader in catalysis, BASF has unsurpassed expertise in developing innovative emission control technologies for a wide range of applications, to enable clean air for a sustainable future. We are the Emissions Professionals.

The focus of the BASF Emissions Professional is always on innovative, cost-effective solutions to meet the needs of OEMs and engine manufacturers globally. With a creative, open, responsible and entrepreneurial approach we help our customers meet regulations and be more profitable. That’s the EMPRO way.

About Us
BASF’s Catalysts division is the world’s leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious metals, BASF’s Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry
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