

BM CATALYSTS

EUROPE'S NUMBER ONE INDEPENDENT MANUFACTURER OF CATALYSTS, DPFs AND FRONT PIPES...



BM CATALYSTS OFFER BOTH A STANDARD AND PREMIUM RANGE OF CATALYTIC CONVERTERS...

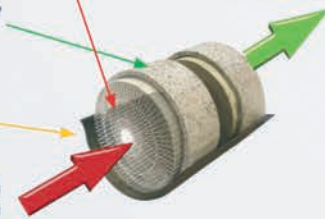
WHAT ARE THEY AND HOW DO THEY WORK?

A **Catalytic Converter (Cat)** is an emissions control device that reduces the level of harmful exhaust gases that enter the atmosphere. It works by converting the harmful exhaust emissions into less harmful ones when the gasses pass through it.

- **Ceramic Monolith** made of a honeycomb structure to allow free air flow and maximum surface area; coated with precious metals to enable the conversion of gasses that pass through it.
- **Interam Matting** to hold the monolith in place. The matting expands when exposed to heat to supply the pressure needed to keep the monolith secure.
- Grade 409 **Stainless Steel can** (or housing) to provide protection and enable the Cat to be built into the exhaust system.

EXHAUST GASSES IN
HYDROCARBONS (HC)
CARBON MONOXIDE (CO)
NITROGEN OXIDES (NO_x)

EXHAUST GASSES OUT
WATER (H₂O)
CARBON DIOXIDE (CO₂)
NITROGEN (N)



UNDERSTANDING EMISSIONS REPORTS

A vehicle will fail an emissions test on either, or all, of the following:

CO Failure can mean several things, but is most likely caused by a poorly running vehicle. If a Cat becomes contaminated with unburned fuel, it will become unable to convert the gasses that pass through it. A new Cat running at full capacity will almost certainly lead to an MOT pass, but unless the fault is rectified, the customer will return the next year complaining of the same problem.

HC Failure is an indicator that the vehicle is over-fuelling. A vehicle will fail on this reading if it has HCs in excess of 200ppm. HCs in excess of 60ppm indicates a vehicle problem that needs rectifying as soon as possible.

Lambda Failure means there is a problem with the air-fuel ratio on the vehicle. If the lambda reading is less than 0.97 the vehicle is running too rich. If the lambda reading is greater than 1.03 the vehicle is running too lean.

PREMIUM BLUE ANGEL CATALYSTS

Blue Angel is the world's oldest and most renowned eco-label, given to products with high environmental, serviceability, health, occupational protection and quality standards.

To achieve Blue Angel status, the Catalytic Converter is rigorously tested. This testing is similar to that which is required for homologated catalysts; with the notable addition of a comparison of the performance of the part when new to its performance after it has been artificially aged. This is designed to simulate how the part will react when it is fitted to the vehicle. Additional testing is undertaken each year for the life span of the part. BM Catalysts Blue Angel parts are assessed regularly to ensure high emissions standards and come with a 3 year warranty with unlimited mileage against manufacturing defects.



TOP PART

