

Catalytic Convertor Seals



KnitMesh Technologies® seals are manufactured using mesh that is usually compressed in a die to make an even density all metal one piece end seal ring.



How They Work

They are designed to protect delicate ceramic honeycomb bricks and intumescent mats from gas erosion and to prevent exhaust gas bypass between the brick and the inner catalytic convertor shell. They are also used extensively within diesel filter assemblies.

It is also possible to produce an assembly having two seals that fit around either end of the monolith brick that are joined by connecting mesh. This is particularly useful where the convertor can design does not have any other way of keeping seals in position.

Components can be designed that maintain a constant seal as the filter and housing expand at different rates of thermal expansion. The seal can be designed to operate within its elastic range over this compression range.

Quality Assurance

KnitMesh Technologies® is accredited to:
ISO9001:2008, ISO14001:2004, OHSAS18001:2007, PAS
99:2006 and ISO/TS 16949:2009



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Features and Benefits

- Low cost manufacture due to state of the art manufacturing techniques.
- Wide range of materials available to suit temperature requirements exceeding 1000°C.
- Seals can be produced to suit any size or shape of monolith brick.
- Round and oval cross sections available.
- Lips can be added for additional protection of monolith brick edges.
- Man-made materials such as silica yarns can be used in conjunction with a metal filament to improve performance.
- Prototypes can be produced cheaply and quickly from low cost die sets.
- Ceramic fibre materials can also be covered by mesh to give added protection against exhaust gas bypass.

