



P-DEF

EvoCorse presents an absolute innovation for the set-up of the most powerful braking systems known: the **P-DEF[®], or PYROCLAST[®] DYNAMIC ENERGY FILTER**

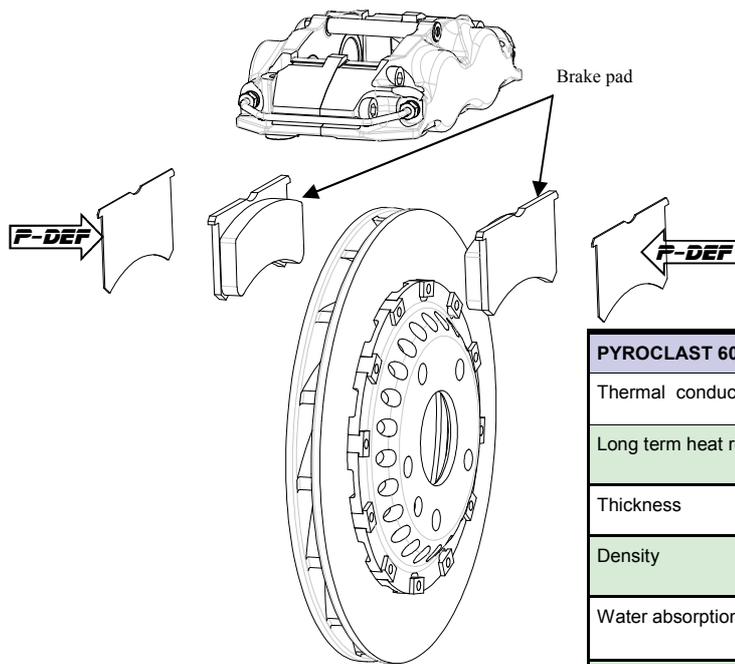
This new and unique material was born from years of research with the collaboration of great institutions. Its use, on braking systems, is protected by an international patent.

Thanks to the exceptional properties of insulation and compression strength, these miraculous plates bring incredible benefits in the racing use of the braking system. Tested by the best drivers for the entire 2010 season, it is now a reliable and ready-to-race device, with its numerous variants of calliper, lining and disc.

The lightness of the material and the reduced thickness (1mm) are not a problem for most of the most powerful systems, against evident benefits.

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PROPERTIES



PYROCLAST 600	Technical sheet		
Thermal conductivity	0,21	W/mK	DIN 52612
Long term heat resistance	620	°C	
Thickness	1 +- 0,15	mm	
Density	2,12	g/cm ³	ISO 1183 method 3
Water absorption	<0,6	%	ISO 62 method 1
Flammability	94 V-0	according	UL 94
Flexural strength flatwise	150	Mpa	ISO 178

P-DEF plates are to be positioned between the brake lining and the calliper's pistons, creating a **barrier for the passage of the heat** given off during the braking.

In this way, **Vapor-lock problems**, caused by the brake fluid as a consequence of an intense use of the brakes, can be reduced.

Another result is a **quicker response in case of a cold-brakes**, because the plate's insulation allows the lining to reach the correct temperature in a shorter time.

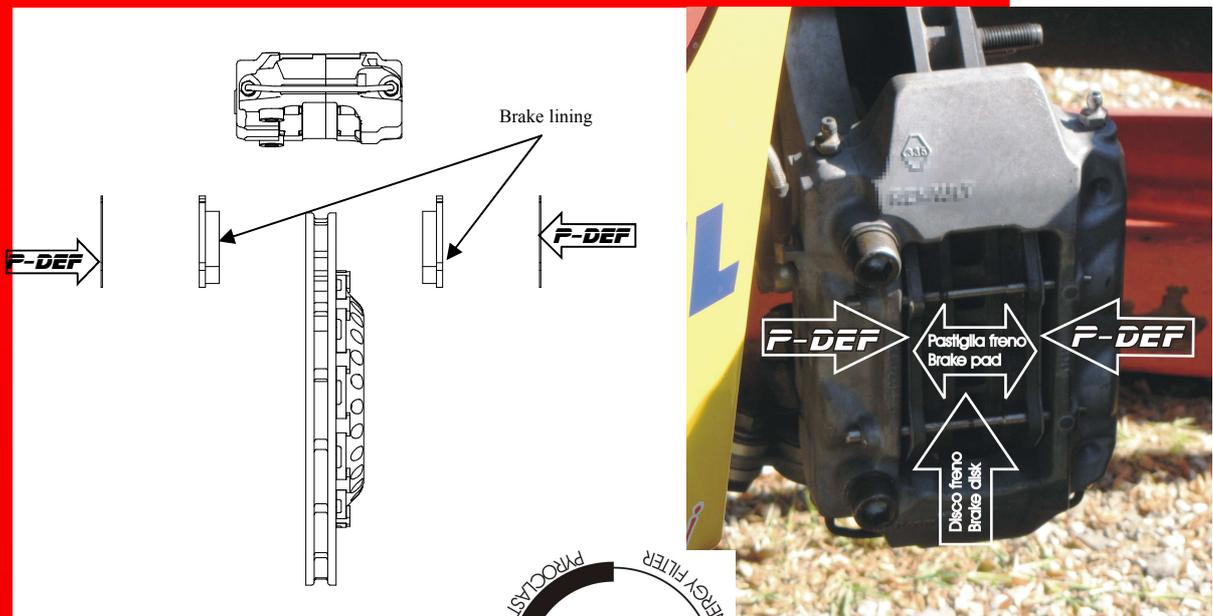
The PYROCLAST® material also takes part in the damping of the vibrations, succeeding in drowning out some of the highest resonance frequencies.

Main effects are:

- 1) **Substantial reduction of the brakes' temperature problems**
- 2) **Ease in reaching the correct temperature of the linings**
- 3) **Increase of the braking performances**
- 4) **Damping of the vibrations**

PYROCLAST®, it is a material free from toxic and dangerous substances included in the directive EU 2002/95/CE, p4 sec1, the material does not include Asbestos or other materials dangerous for health.

WARNINGS



- After cleaning, it is recommended to glue the plate with a few drops of adhesive on the brake lining's back. This insures making it a one piece lining to avoid any possible problems with racing rules.
- The plate's integrity is guaranteed for its use in combination with only one set of brake linings.
- It is the users responsibility to always check the legality of applying the P-DEF system on their racing cars, to be in compliance with existing technical rules for its category/championship.
- The P-DEF system has been tested on many braking systems, considering different combinations of disc, lining, calliper, brake fluid, and car's weight and power. However the number of possible combinations of these parameters makes it almost impossible to have complete tests of all hypothetical configurations. So the system has to be opportunely run in and tested by the user on every single braking system used, especially when there's a variation of one of the above mentioned parameters.
- Its use is not suggested the use with brake linings studied for a low-temperature employment: a performance decrease and an excessive consumption of the lining itself could occur.
- In some cases a slight increase in the consumption of the brake lining was noticed.
- In some cases, the combination between new disc and lining could make the lining interfere with the disc after the insertion of the P-DEF plate: therefore it is suggested to slightly run in the linings before inserting the plates.
- The P-DEF system isn't tested for a street use: it is only for Racing purpose.
- PYROCLAST®, it is a material free from toxic and dangerous substances included in the directive EU 2002/95/CE, p4 sec1, the material does not include Asbestos or other materials dangerous for health.
- Do not disperse in the environment after use.
- WARNING: Motorsport Racing is a hazardous sport . NO warranty is made or implied regarding any product sold by Seido de srl (owner of EVO Corse brand) to protect users from injury or death. The user assumes all risks. "Legal notice"**

FITTING INSTRUCTIONS



Clean up carefully the brake pad back surface



Apply a few drops of adhesive.



Apply the P-DEF plate and maintain a light pressure for few seconds until the glue sets.



The brake pad complete with P-DEF system is ready for use.



All pictures represented have been used as an application possible example, they do not represent a connection with the showed object.

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