The objective of new foil developments is to make the catalyst system even more effective by improving flow distribution and mass transfer, reducing pressure loss and thermal mass, as well as reduced amount of precious metal. The innovations presented here fulfill this objective and reveal new cost-reduction potential.
More engine performance: Radial flow equalisation within the catalyst means lower pressure loss.

PE: Perforated foils for high-performance vehicles

Advantages:
- Comparable or improved efficiency due to optimal utilization of the catalyst by PE structure. This advantage is realized even considering the reduced geometric surface area.
- The pressure loss reduction due to the perforation and thus improved flow distribution by radial flow.

LS: Structured foils for Metalit substrates

Advantages:
- Increases in efficiency were evident due to the LS-structure.
- Because of increased conversion performance the substrate volume can be reduced.
- The simultaneous use of a PE-foil increases catalyst utilisation and thus efficiency.
- Through less use of materials both weight and costs are reduced.

For further information contact EMITEC.