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Presented Paper at SAE 27th Brake Colloquium & Exhibition

We presented a paper at SAE 27th Brake Colloquium & Exhibition on October 13, 2009. We've presented our papers at this event for seven straight years.

1. TITLE

Increasing Thermal Strength of Brake Discs by Improving Material Homogeneity

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2. AUTHORS

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3. ABSTRACT

Reducing vehicle weight for promoting a sustainable global environment is one of the most significant challenges in the automotive industry. It is difficult to replace cast iron with lighter brake-disc material for ordinary vehicles. Material homogeneity also affects the thermal strength of brake discs. In our previous study, we established an integrated system for developing and manufacturing homogeneous brake discs to reduce judder. With our system, we maintained the thermal strength of a lightweight brake disc by improving its material homogeneity. As a result, we can optimize the brake disc design for reducing a disc's weight and contribute toward sustaining our global future.

4. CONTACT

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