

# RESEARCH OF TESTING DEVICES THAT DETERMINE THE FRICTION PARAMETER AND WEAR RESISTANCE OF BRAKE PADS

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## **Abstract:**

The testing devices used today handles the variables such as speed, temperature, pressure occurring in automobiles due to various factors, and examines the impacts of these variables on brake pads in automobiles. In these devices, following experimental studies, the friction paramters, erosion resistance and thermal contacts of brake pads can be easily determined. Although it is quite easy to obtain information about the states of the materials using test device, testing devices have provided us to reach the values we aim to get correctly thanks to the sensibility of electronic and mechanic materials.

When vehicles in motion are required to or stopped by friction and slipping, their kinetic energy is absorbed. As a result, the vehicles are slowed down or stopped. In order to do this, coefficients of friction of surface material couple needs to be high and stable. Identifying the friction coefficient of brake lining is very important for providing safety of passengers and vehicles. In this study, examining testing devices determining the friction coefficient and wear resistance of brake pads used in autos in today's conditions, it is aimed to provide improvement in material choice and technology or the possibility of improvement.

**Key Words:** Testing devices, friction coefficient, wear resistance.