

GLASSWOOL AND ALUMINIUM FOIL COMBINATIONS FOR HEAT AND NOISE REDUCER EXHAUST MODIFICATION

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ABSTRACT

The aim of this reserch is to reduce level of noise that produce from modified exhaust and reduce temperature by using glasswool and aluminium foil combinations. The increasing exhaust temperature will be the main issue that the research will do. Experimental method will be use duringthis research. The research will be be place at State Polytechnic of Jember during 1st August 2017 – 23rd January 2019. The experiment will be focus on level of noise (dB) and temperature (°C) for futhermore observed trend from each variable. The result show that combination from 2 layer glasswool and 1 layer aluminium foil is more capable to reduce level of noise and temperature. At 1.500 rpm seen level of noise reduce from 72,4 dB to 65,6 dB and at 6.500 rpm seen 94,2 dB to 857,4 dB where the maximum temperature of exhaust modification from 43,2 °C to 35,3 °C.

Keywords: Aluminium, Glasswool, Heat, Reducer.