Thesis Title A Comparative Study of Various Types of Gloves in Reducing Vibration from Rock Drill

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ABSTRACT

The objective of this study is to compare the reducing vibration between three types of gloves to bare hands. The experiment was made to a worker wearing three types of gloves and his bare hands with putting a vibration pickup on the back of his hands.Vibration measurements were done by using vibration meter under 24 vibration frequencies through A/D converter to micro computer for colleting and interpreting the results gained.

From the study,it is found that wearing gloves can decrease vibration values on the rock drill handle's part. Comparing the bare hands to the three types of gloves, the result shoewd that the first type of gloves reduced vibration value about 35.18%, the second type of gloves 18.18% and the third type 24.86% respectively

As comparing vibration values to each frequency, the reduced value of the first type of gloves was statistically significant difference in almost every frequencies except for the values of 100 , 125, Hz

Moreover, the reduced values of the second type of gloves was not found statistically significant difference at 100,125,500,630,830,1250, Hz as well as the third type of gloves was not shown statistically significant difference at 250, 315, 630, 800, 1250 Hz