

IMPACT OF LEACHING TANK WATER ON FINAL QUALITY OF THE GLOVE

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Addition

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ABSTRACT

The purpose of this research was to analyze the impact of leaching tank water on final quality of the glove at Workwear Lanka (Pvt.) Ltd. The leaching process is the main step in the glove manufacturing process. Excess chemicals were removed using leaching tank. This study has been completed with an empirical primary data which was conducted thoroughly using a data collecting method. 25 leaching water sample were selected. Also for presenting and analyzing the data, both descriptive and regression analysis were used. Based on the results of discussion certain vital findings were made. According to the analyzed data, in plant 01, optimum glove calcium level was 0.044 gl^{-1} and in plant 03, optimum glove calcium level was 0.028 gl^{-1} . In plant 01, optimum pH level of leaching tank water was 4.068 and in plant 03, optimum pH level of leaching tank water was 5.10. In plant 01, optimum TDS level of leaching tank water was 467.56 ppm and in plant 03, optimum TDS level of leaching tank water was 444.04 ppm. In plant 01, optimum calcium level was 0.1626 gl^{-1} and in plant 03, optimum calcium level of leaching tank water was 0.1228 gl^{-1} . Above this optimum level, quality of the gloves was affected. Therefore, above this level leaching water should be removed and refilled the leaching tank.

Key word: Leaching tank, Optimum calcium level, Optimum TDS level, Optimum pH level, Leaching tank water