Abstract

Currently, the cigarette industry in Indonesia is growing rapidly. These developments resulted in the emergence of tight competition. To remain competitive, one of the important factors to be considered is the issue of quality of cigarettes. In an effort to maintain the quality of tobacco produced, we need a good quality control system so that the smoke produced can meet the quality standards set by the company. Therefore, it takes the right method to perform maximum quality control, one of them is to use statistical quality control methods. In this research, quality control done at the primary stage of the blending process in a cigarette companies. Quality assessment carried out on some quality characteristics (multivariate). One of multivariate control charts are effective enough to control the quality of the individual observation is that the control chart Multivariate Exponentially Weighted Moving Average (MEWMA). By using the weighting that has been determined, the process of cigarette production blending stage shows that have not been statistically controlled. This is because there are several observations that are beyond the control limit of observation to 63, 81 and 83.

Keywords: Multivariate, new MEWMA Control Chart, Quality Control
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