

Single Sampling Plan for Three Attribute Classes Indexed Through Acceptable Quality Level*

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Abstract

Traditional two-class sampling plans are used to classify a lot of items as acceptable or non-acceptable by considering only the number of non-conformities found in the sample. These plans do not consider marginal defective items. By considering a near miss item as marginal, three-class sampling plans are used to decide whether to accept or reject a lot based on not only the number of non-conformities, but also the number of marginal items. This paper presents a procedure for constructing single sampling plans for three attribute classes using acceptable quality level (AQL) as the quality standard. Tables are also provided for easy selection of these plans. These plans are also compared with the two-class attribute plans.

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