UDC 658.562:519.2

JIS

JAPANESE INDUSTRIAL STANDARD

Sampling Inspection No. 2

Single sampling inspection plans having desired operating characteristics

Part 1. Sampling by attributes

JIS Z 9002—1956

Translated and Published

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority

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JAPANESE INDUSTRIAL STANDARD J I S

Single Sampling Inspection Plans having Desired Operating Characteristics

Z 9002-1956
(Reaffirmed: 1994)

Part 1. Sampling by Attributes

1. General Matters

1.1 Scope This Japanese Industrial Standard specifies the methods of determining single sampling inspection plans by attributes and of operating them.

Remark: Single sampling inspection plans are those designed so as to have operating characteristics desired by producers and consumers. In these plans, acceptance or rejection of each lot is determined by the number of defective units found in a sample drawn at one time from the lot.

Since this inspection is conducted by sampling, it is necessary that the products can be deal with in the form of lots and it is difficult to avoid some defective units being contained in accepted lots.

1.2 Definitions and Symbols

1.2.1 Symbols

p_0: upper limit for the fraction defective of a lot which is desired to be accepted at high probability.

p_1: lower limit for the fraction defective of a lot which is desired to be rejected at high probability.

α: producer's risk (the probability that a p_0 fraction defective lot is rejected)

β: consumer's risk (the probability that a p_1 fraction defective lot is accepted)

n: sample size

c: acceptance number

1.2.2 Definitions of Terms

inspection unit: A single unit of product or a definite quantity of material submitted for inspection.

inspection lot: A collection of units of product submitted for inspection (hereinafter referred to as the "lots").

lot size: Total number of inspection units in a lot.

Reference Standards:

JIS Z 9001-General Rules for Sampling Inspection Procedures