

JIS

JAPANESE INDUSTRIAL STANDARD

**Single Sampling Inspection
Plans having Desired Operation
Characteristics by Variables
(Standard Deviation Known)**

JIS Z 9003⁻¹⁹⁷⁹

Translated and Published

by

Japanese Standards Association

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

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Single Sampling Inspection Plans having Desired
Operation Characteristics by Variables
(Standard Deviation Known)Z 9003-1979
(Reaffirmed: 1989)**1. Scope**

This Japanese Industrial Standard specifies the determination of single sampling inspection plans having desired operation characteristics which apply the case of assuring the mean value of a lot or the lot fraction defective when the lot standard deviation is known.

Remarks 1. These plans are designed so that they have inspection operation characteristics desired by producers and consumers when the standard deviation of a lot is known and the mean value of the lot or the lot fraction defective is assured. In these plans, the acceptance or rejection of a lot is determined by comparing the mean value of a characteristic value of a sample taken once from the lot with the acceptance value calculated on the basis of the known standard deviation of the lot.

In application of these inspection plans, the following conditions shall be met:

- (1) The quality of inspection unit can be expressed as variables.
- (2) The product can be handled in the form of lots.
- (3) The standard deviation of a characteristic value of the lot needs to be known.
- (4) In the case of fraction defective, it can not be avoided that the accepted lots contain some defectives, because the distribution of the characteristic value is assumed to be normal and it is assured that the lot fraction defective is within certain limits.

2. The units and numerical values given in { } in this standard are in accordance with the International System of Units (SI), and are appended for information.

Applicable Standards:

JIS Z 8101-Glossary of Terms Used in Quality Control

JIS Z 9004-Single Sampling Inspection Plans having Desired Operating Characteristics by Variables (Standard Deviation Unknown and Single Limit Specified)

JIS Z 9031-Random Sampling Methods

Reference Standard:

JIS Z 9001-General Rules for Sampling Inspection Procedures