

JIS

JAPANESE INDUSTRIAL STANDARD

**Single Sampling Inspection Plans
having Desired Operating
Characteristics by Variables
(Standard Deviation Unknown
and Single Limit Specified)**

JIS Z 9004—1983

Translated and Published

by

Japanese Standards Association

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

JAPANESE INDUSTRIAL STANDARD

J I S

Single Sampling Inspection Plans having Z 9004-1983
Desired Operating Characteristics by Variables (Reaffirmed: 1993)
(Standard Deviation Unknown and Single Limit Specified)

1. Scope

This Japanese Industrial Standard specifies determination and practical application methods for single sampling inspection plans for assuring the percent defective of lots in the case where the standard deviation is unknown and the upper or lower specification limit only is given.

Remark: The single sampling inspection plans in which the standard deviation is unknown and the upper or lower limit only is specified are the sampling inspection plans which are designed so that they have operating characteristics required by producers and consumers when the quality of lots is expressed as a lot fraction defective, and acceptance or rejection of a lot is decided by using a sample mean and standard deviation calculated on a sample taken at one time from the lot and comparing these values with the specification limit given.

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

- (1) a quality characteristic of inspection units is expressed in terms of variables and the distribution of the characteristic can be regarded as normal,
- (2) products can be handled as lots,
- (3) some defectives can be permitted in accepted lots,
- (4) a sample can be taken at random, and
- (5) the size of lots is sufficiently large.

Applicable Standard:

JIS Z 9031-Random Sampling Methods

Reference Standards:

JIS Z 8101-Glossary of Terms Used in Quality Control

JIS Z 9001-General Rules for Sampling Inspection Procedures

JIS Z 9003-Single Sampling Inspection Plans having Desired Operation Characteristics by Variables (Standard Deviation Known)