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# ISO 3951-1:2005 Sampling procedures for inspection by variables - Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL

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Abbreviation  
ISO 3951-1:2005  
Valid from  
07/04/2005

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Information provider  
Standards New Zealand  
Author  
International Organization for Standardization  
Information type  
ISO Standard  
Format  
PDF

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Cited By  
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## Description

ISO 3951-1:2005 specifies an acceptance sampling system of single sampling plans for inspection by variables, in which the acceptability of a lot is implicitly determined from an estimate of the percentage of nonconforming items in the process, based on a random sample of items from the lot.

ISO 3951-1:2005 is primarily designed for application under the following conditions: where the inspection procedure is to be applied to a continuing series of lots of discrete products all supplied by one producer using one production process;

- where only a single quality characteristic  $x$  of these products is taken into consideration, which must be measurable on a continuous scale;
- where the measurement error is negligible, i.e. with a standard deviation no more than 10% of the process standard deviation;
- where production is stable (under statistical control) and the quality characteristic  $x$  is distributed according to a normal distribution or a close approximation to the normal distribution;
- where a contract or standard defines an upper specification limit  $U$ , a lower specification limit  $L$ , or both;
- an item is qualified as conforming if and only if its measured quality characteristic  $x$  satisfies the appropriate one of the following inequalities:
  - $x$  greater than or equal to  $L$ ;

- $x$  less than or equal to  $U$ .

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ISO 3951-1:2005 is cited by AS/NZS 3518:2013 Acrylonitrile butadiene styrene (ABS) compounds; pipes and fittings for pressure applications

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