ISO 3951-1:2005, Sampling Procedures For Inspection By Variables - Part 1: Specification For Single Sampling Plans Indexed By Acceptance Quality Limit ... Quality Characteristic And A Single AQL
Synopsis

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: \( x \geq L \) (i.e. the lower specification limit is not violated); \( x \geq U \) (i.e. the upper specification limit is not violated); \( x \geq L \) and \( x \leq U \) (i.e. neither the lower nor the upper specification limit is violated). The first two inequalities are called cases with a single specification limit, and the third a case with double specification limits. If double specification limits apply, it is assumed in ISO 3951-1:2005 that conformance to both specification limits is equally important to the integrity of the product; in such cases it is appropriate to apply a single AQL to the combined percentage of product outside the two specification limits. This is referred to as combined control.

Book Information

Paperback: 114 pages
Publisher: Multiple. Distributed through American National Standards Institute (ANSI) (August 23, 2007)
Language: English
ASIN: B000Y2SZ1K
Product Dimensions: 8.2 x 0.3 x 10.5 inches
Shipping Weight: 11.8 ounces (View shipping rates and policies)
Average Customer Review: Be the first to review this item
Best Sellers Rank: #6,037,529 in Books (See Top 100 in Books) #111 in Books > Engineering &