

INTERNATIONAL STANDARD

ISO
5725-1

First edition
1994-12-15

Accuracy (trueness and precision) of measurement methods and results —

Part 1:

General principles and definitions

*Exactitude (justesse et fidélité) des résultats et méthodes de mesure —
Partie 1: Principes généraux et définitions*



Reference number
ISO 5725-1:1994(E)

Contents

	Page
1 Scope	1
2 Normative references	1
3 Definitions	2
4 Practical implications of the definitions for accuracy experiments	4
4.1 Standard measurement method	4
4.2 Accuracy experiment	4
4.3 Identical test items	5
4.4 Short intervals of time	5
4.5 Participating laboratories	5
4.6 Observation conditions	5
5 Statistical model	6
5.1 Basic model	6
5.2 Relationship between the basic model and the precision	7
5.3 Alternative models	7
6 Experimental design considerations when estimating accuracy	7
6.1 Planning of an accuracy experiment	7
6.2 Standard measurement method	8
6.3 Selection of laboratories for the accuracy experiment	8
6.4 Selection of materials to be used for an accuracy experiment	10
7 Utilization of accuracy data	11
7.1 Publication of trueness and precision values	11
7.2 Practical applications of trueness and precision values	12

Annexes

A Symbols and abbreviations used in ISO 5725	13
---	-----------

© ISO 1994

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland