

TECHNICAL REPORT

ISO
TR 5307

First edition
1991-12-01

Solid fertilizers — Derivation of a sampling plan for the evaluation of a large delivery

*Matières fertilisantes solides — Fondements théoriques du plan
d'échantillonnage destiné à l'évaluation d'une grosse livraison*



Reference number
ISO/TR 5307:1991(E)

Contents

	Page
1 Scope	1
2 References	1
3 Notation and symbols	1
4 Preliminary hypotheses	4
5 Principle of the sampling plan	4
5.1 General	4
5.2 Information	5
5.3 What is determined by the proposed method	8
6 Theory of the sampling plan	8
6.1 Definitions	8
6.2 Determination of limits	9
6.3 Use of two non-central t distributions	10
6.4 Determination of N and N'	11
7 Practical procedure for the determination of N and N'	15
7.1 Basic information	15
7.2 Calculation	15
7.3 Simplified calculation when $N' > 30$	16
8 Examples of calculations	17
8.1 Calculation by the complete process	17
8.2 Simplified calculation	20
9 Effect of the values of the various parameters on N and K ...	20
10 Evaluation of a delivery	22

Annexes

A Table of values of the standardized normal variable u as a function of P	24
B Table of values of $(1 - a^2)/a^2$	25

© ISO 1991

All rights reserved. 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