

Paper and board — Determination of resistance to picking — Accelerated speed method using the IGT-type tester (electric model)

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National foreword

This British Standard reproduces verbatim ISO 3783:2006 and implements it as the UK national standard. It supersedes BS 6225-2:1982 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PAI/11, Method of test for paper, board and pulps, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 12, an inside back cover and a back cover.

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INTERNATIONAL STANDARD

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Paper and board — Determination of resistance to picking — Accelerated speed method using the IGT-type tester (electric model)

*Papier et carton — Détermination de la résistance à l'arrachage —
Méthode d'impression à vitesse accélérée avec l'appareil de type IGT
(modèle électrique)*



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Foreword

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ISO 3783 was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

This second edition cancels and replaces the first edition (ISO 3783:1980), which has been technically revised. The main changes are in the use of a pick-start viewer for the assessment of the start of the pick or delamination, the use of the viscosity of the pick-test oils for normalisation of the results to 23 °C, and the clear definition of the velocity profile for the testers.

Introduction

Pick is the name commonly given to damage to the paper surface occurring during the printing operation. When the printing form is lifted from the paper, the ink exerts on the paper a force, which increases with increasing viscosity and tack of the ink and with increasing printing speed. When this force exceeds a critical value, which depends on the paper, the surface of the paper is damaged.

The minimum printing speed at which pick occurs is a measure of the pick resistance of the paper.

Using specified testing equipment, the paper or board is printed with a pick-test oil of known viscosity, at constant printing force and at an increasing velocity. Pick velocity and pick resistance are derived from the distance between the starting point of the print and the point on the print where the first damage is observed.

In the case of paperboard when the adhesion between the outer layer and the next layer is too low, delamination between the layers can occur during printing.