

Explosives for civil uses — Propellants and rocket propellants —

Part 5: Determination of voids and fissures

The European Standard EN 13938-5:2004 has the status of a
British Standard

ICS 71.100.30

National foreword

This British Standard is the official English language version of EN 13938-5:2004.

The UK participation in its preparation was entrusted to Technical Committee CII/61, Explosives for civil uses, 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 the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 25 August 2004

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 11 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

© BSI 25 August 2004

ISBN 0 580 44333 7

English version

Explosives for civil uses - Propellants and rocket propellants - Part 5: Determination of voids and fissures

Explosifs à usage civil - Cordeaux détonants et mèches
lentes - Partie 5: Propergols solides pour autopropulsion -
Guide pour la détermination des vides et des fissures

Explosivstoffe für zivile Zwecke - Treibladungspulver und
Raketentreibstoffe - Teil 5: Bestimmung von Lunkern und
Rissen

This European Standard was approved by CEN on 21 June 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

	page
Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 NDT methods.....	6
5 Destructive testing of small rocket motors.....	7
5.1 Test pieces	7
5.2 Apparatus	7
5.3 Procedure	9
5.4 Evaluation of test results	9
6 Test report	10
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 93/15/EEC.....	11

Foreword

This document (EN 13938-5:2004) has been prepared by Technical Committee CEN/TC 321 "Explosives for civil uses", the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2005, and conflicting national standards shall be withdrawn at the latest by February 2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This document is one of a series of standards with the generic title *Explosives for civil uses – Propellants and rocket propellants*. The other parts of this series are listed below:

prEN 13938-1 Part 1: Requirements

prEN 13938-2 Part 2: Determination of resistance to electrostatic energy

EN 13938-3 Part 3: Determination of deflagration to detonation transition

EN 13938-4 Part 4: Determination of burning rate under ambient conditions

EN 13938-6 Part 6: Guide for the determination of integrity of inhibitor coatings

EN 13938-7 Part 7: Determination of properties of black powder

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.