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Utgåva 1

Explosiva varor för civilt bruk – Krut och raketkrut –

Del 6: Fasta raketkrut – Vägledning för bestämning av inhibitorbeläggnings integritet

Explosives for civil uses – Propellants and rocket propellants –

Part 6: Solid rocket propellants – Guide for the determination of integrity of inhibitor coatings

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English version

**Explosives for civil uses - Propellants and rocket propellants -
Part 6: Solid rocket propellants - Guide for the determination of
integrity of inhibitor coatings**

Explosifs à usage civil - Propergol et blocs de propergol
pour fusée - Partie 6: Bloc de propergol pour fusée - Guide
de détermination de l'intégrité des revêtements inhibiteurs

Explosivstoffe für zivile Zwecke - Treibladungspulver und
Raketentreibstoffe - Teil 6: Feste Raketentreibstoffe -
Leitfaden zur Bestimmung der Integrität von
Inhibitorbeschichtungen

This European Standard was approved by CEN on 6 February 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.



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EN 13938-6:2004 (E)

Contents		Page
Foreword.....		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions.....	5
4	NDT methods.....	6
5	Test report	6

Foreword

This document (EN 13938-6:2004) has been prepared by 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 November 2004, and conflicting national standards shall be withdrawn at the latest by November 2004.

This European Standard 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.

prEN 13938-5 Part 5: Solid rocket propellants. Determination of voids and fissures.

prEN 13938-7 Part 7: Determination of properties of black powder.

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EN 13938-6:2004 (E)

Introduction

Incomplete adhesion of, or flaws in, the inhibitor coating to solid rocket propellant grains and the casing can result in dangerously high pressures in rocket motors and adversely affect their safety and performance. The category "Solid rocket propellants" encompasses charges over a wide range of composition and dimensions. It is not possible to define an acceptable level of defects (lack, crack or blister) in the inhibitor coating which is applicable to the whole range of products. It is necessary for this to be agreed between the producer and the customer. Consequently a Harmonised Standard cannot be defined with criteria for acceptance levels of integrity of inhibitor coating. However it is important that interested parties are aware of the methods which can be used to assess the extent of integrity of inhibitor coating in any particular product. This standard describes a number of methods which have been used. A method can be selected which is most appropriate to the charge under examination.