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SOUTH AFRICAN NATIONAL STANDARD

Explosives for civil uses — Detonators and relays

Part 23: Determination of the shock-wave velocity of shock tube

This national standard is the identical implementation of EN 13763-23:2002, and is adopted with the permission of CEN, rue de Stassart 36, B-1050 Brussels.

WARNING

This document references other documents normatively.

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Table of changes

Change No.	Date	Scope

National foreword

This South African standard was approved by National Committee SABS/TC 1064, *Explosives and detonators*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

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Explosives for civil uses - Detonators and relays - Part 23: Determination of the shock-wave velocity of shock tube

Explosifs à usage civil - Détonateurs et relais - Partie 23:
Détermination de la vitesse d'ondes de choc du tube
conducteur d'ondes de choc

Explosivstoffe für zivile Zwecke - Zünder und
Verzögerungselemente - Teil 23: Bestimmung der
Stoßwellengeschwindigkeit in Zündschläuchen

This European Standard was approved by CEN on 1 August 2002.

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

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Foreword

This document (EN 13763-23:2002) has been prepared by the 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of an identical text or by endorsement, at the latest by March 2003, and conflicting national standards shall be withdrawn at the latest by March 2003.

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

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

This European Standard is one of a series of standards with the generic title *Explosives for civil uses - Detonators and relays*. The other parts of this series are listed below:

- prEN 13763-1 *Part 1: Requirements.*
- EN 13763-2 *Part 2: Determination of thermal stability.*
- EN 13763-3 *Part 3: Determination of sensitiveness to impact.*
- prEN 13763-4 *Part 4: Determination of resistance to abrasion of leading wires and shock tubes.*
- prEN 13763-5 *Part 5: Determination of resistance to cutting damage of leading wires and shock tubes.*
- prEN 13763-6 *Part 6: Determination of resistance to cracking in low temperatures of leading wires.*
- prEN 13763-7 *Part 7: Determination of the mechanical strength of leading wires, shock tubes, connections, crimps and closures.*
- prEN 13763-8 *Part 8: Determination of resistance to vibration of plain detonators.*
- prEN 13763-9 *Part 9: Determination of resistance to bending of detonators.*
- prEN 13763-10 *Part 10: Determination of resistance to torsion of sealing plugs.*
- prEN 13763-11 *Part 11: Determination of drop resistance of detonators and relays.*
- prEN 13763-12 *Part 12: Determination of resistance to hydrostatic pressure.*
- prEN 13763-13 *Part 13: Determination of resistance of electric detonator to electrostatic discharge.*
- prEN 13763-14 *Part 14: Determination of resistance of electric detonator to the influence of radio frequency radiation.*
- prEN 13763-15 *Part 15: Determination of equivalent initiating capability.*
- prEN 13763-16 *Part 16: Determination of delay accuracy.*
- prEN 13763-17 *Part 17: Determination of no-fire current of electric detonators.*
- prEN 13763-18 *Part 18: Determination of series firing current of electric detonators.*
- prEN 13763-19 *Part 19: Determination of firing pulse of electric detonators.*