

LIST OF STANDARDS AND METHODS USED BY 'LABORATORY FOR TESTING OF EXPLOSIVES'

I. HARMONIZED BULGARIAN STATE STANDARDS

EN 13 630-1	Explosives for civil uses. Detonating cords and safety fuses. Part 1: Requirements
EN 13 630-2	Explosives for civil uses. Detonating cords and safety fuses. Part 2: Determination of thermal stability of detonating cords and safety fuses
EN 13 630-3	Explosives for civil uses. Detonating cords and safety fuses. Part 3: Determination of sensitiveness to friction of the core of detonating cords
EN 13 630-4	Explosives for civil uses. Detonating cords and safety fuses. Part 4: Determination of sensitiveness to impact of detonating cords
EN 13 630-5	Explosives for civil uses. Detonating cords and safety fuses. Part 5: Determination of resistance to abrasion of detonating cords
EN 13 630-6	Explosives for civil uses. Detonating cords and safety fuses. Part 6: Determination of resistance to tension of detonating cords
EN 13 630-7	Explosives for civil uses. Detonating cords and safety fuses. Part 7: Determination of reliability of initiation of detonating cords
EN 13 630-8	Explosives for civil uses. Detonating cords and safety fuses. Part 8: Determination of resistance to water of detonating cords and safety fuses
EN 13 630-9	Explosives for civil uses. Detonating cords and safety fuses. Part 9: Determination of transmission of detonation from detonating cord to detonating cord
EN 13 630-10	Explosives for civil uses. Detonating cords and safety fuses. Part 10: Determination of initiating capability of detonating cords
EN 13 630-11	Explosives for civil uses. Detonating cords and safety fuses. Part 11: Determination of velocity of detonation of detonating cords
EN 13 630-12	Explosives for civil uses. Detonating cords and safety fuses. Part 12: Determination of burnig duration of safety fuses
EN 13 631-1	Explosives for civil uses. High explosives. Part 1: Requirements
EN 13 631-2	Explosives for civil uses. High explosives. Part 2: Determination of thermal stability of explosives
EN 13 631-3	Explosives for civil uses. High explosives. Part 3: Determination of sensitiveness to friction of explosives
EN 13 631-4	Explosives for civil uses. High explosives. Part 4: Determination of sensitiveness to impact of explosives
EN 13 631-5	Explosives for civil uses. High explosives. Part 5: Determination of resistance to water
EN 13 631-6	Explosives for civil uses. High explosives. Part 6: Determination of resistance to hydrostatic pressure
EN 13 631-7	Explosives for civil uses. High explosives. Part 7: Determination of safety and reliability at extreme temperatures
EN 13 631-10	Explosives for civil uses. High explosives. Part 10: Method for the verification of the means of initiation
EN 13 631-11	Explosives for civil uses. High explosives. Part 11: Determination of transmission of detonation
EN 13 631-12	Explosives for civil uses. High explosives. Part 12: Specifications of boosters with different initiating capability
EN 13 631-13	Explosives for civil uses. High explosives. Part 13: Determination of density
EN 13 631-14	Explosives for civil uses. High explosives. Part 14: Determination of velocity of detonation
EN 13 631-15	Explosives for civil uses High explosives Part 15: Calculation of thermodynamic properties
EN 13 631-16	Explosives for civil uses High explosives Part 16: Detection and measurement of toxic gases
EN 13763-1	Explosives for civil uses – Detonators and relays – Part 1: Requirements
EN 13763-2	Explosives for civil uses – Detonators and relays – Part 2: Determination of thermal stability
EN 13763-3	Explosives for civil uses – Detonators and relays – Part 3: Determination of sensitiveness to impact
EN 13763-4	Explosives for civil uses - Detonators and relays - Part 4: Determination of resistance to abrasion of leading wires and shock tubes
EN 13763-5	Explosives for civil uses - Detonators and relays - Part 5: Determination of resistance to

	cutting damage of leading wires and shock tubes
EN 13763-7	Explosives for civil uses - Detonators and relays - Part 7: Determination of the mechanical strength of leading wires, shock tubes, connections, crimps and closures
EN 13763-9	Explosives for civil uses - Detonators and relays - Part 9: Determination of resistance to bending of detonators
EN 13763-11	Explosives for civil uses - Detonators and relays - Part 11: Determination of resistance to damage by dropping of detonators and relays
EN 13763-12	Explosives for civil uses - Detonators and relays - Part 12: Determination of resistance to hydrostatic pressure
EN 13763-15	Explosives for civil uses. Detonators and relays - Part 15: Determination of equivalent initiating capability
EN 13763-16	Explosives for civil uses - Detonators and relays - Part 16: Determination of delay accuracy
EN 13763-23	Explosives for civil uses - Detonators and relays - Part 23: Determination of the shock-wave velocity of shock tube
EN 13763-24	Explosives for civil uses - Detonators and relays - Part 24: Determination of the electrical non-conductivity of shock tube
EN 13763-25	Explosives for civil uses - Detonators and relays - Part 25: Determination of transfer capability of surface connectors, relay and coupling accessories
EN 13857-1	Explosives for civil uses Part 1 : Terminology
EN 13857-3	Explosives for civil uses Part 3: Information provided to the consumer by the manufacturer or his authorized representative

II BULGARIAN STATE STANDARDS

BDS 12 428	Detonating cord
BDS 1 526	Safety fuse
BDS 14 363	Industrial explosives. Classification
BDS 14492-78	Industrial explosives. Trinitrotoluene granulated /granulotoluol/, water-resisting
BDS 14 552	Industrial explosives. Naftoniti (ANFO)
BDS 14 600	Industrial explosives. Charges of trinitrotoluene
BDS 14 601	Industrial explosives. Ammonites protective
BDS 14 602	Industrial explosives. Ammonites powder
BDS 14 757	Industrial explosives. Coarse dispersed ammonites
BDS 14 758	Industrial explosives. Pressed TNT. Technical requirements
BDS 14 850	Industrial explosives. Method of content determination trinitrotoluene
BDS 14 948	Industrial explosives. Method of content determination sodium chloride
BDS 14 957	Industrial explosives. Method for determination of ammonium nitrate
BDS 14 976	Industrial explosives. Rules of acceptance and sampling
BDS 15 000	Industrial explosives. Method for determination of detonation completeness
BDS 15 015	Industrial explosives. Method of content determination aluminum
BDS 15 029	Industrial explosives. Method for determining the mass of paper and paraffin per 100 g explosive
BDS 15 030	Industrial explosives. Method of content determination of wood flour and charcoal
BDS 15 031	Industrial explosives. Method for determination of potassium nitrate content
BDS 15 032	Industrial explosives. Methods for determining moisture
BDS 15 397	Industrial explosives. Method for determining the diameter of the cartridge
BDS 15 539	Industrial explosives. Method for determining of brisance
BDS 15 540	Industrial explosives. Method of determining power by detonation detonator capsules № 3
BDS 15 541	Industrial explosives. Method for determining the critical diameter
BDS 15 630	Industrial explosives. Method for determining of Trauzl fougasse properties
BDS 15 832	Industrial explosives. Method for determining the minimum fuze
BDS 15 834	Industrial explosives. Method for determining the temperature of solidification of TNT
BDS 15 856	Industrial explosives. Method for determination of flash point

BDS 15 921	Industrial explosives. Method of determining safety against methane air and dust air mixture
BDS 15 922	TNT for Industrial explosives
BDS 15 923	Industrial explosives. Method for determining the exudation of dynamite
BDS 16 140	Industrial explosives. Method for determining the chemical stability of the nitro ester explosives
BDS 16 141	Industrial explosives. Method for determination of caking tendency
BDS 16 142	Industrial explosives. Packing, marking, transport and storage
BDS 17 359	Industrial explosives. Theoretical characteristics calculation
BDS 17 360	Industrial explosives. Technical requirements
BDS 17 361	Industrial explosives. Classification of protective explosives and test methods inside explosion-risk mixtures
BDS 17 408	Methods for determining the physical stability of oil nitrate mixtures

III. OTHER REGULATORY DOCUMENTS

Recommendations for transport of dangerous goods. Manual of Tests and Criteria, Annex 1, UN, New York and Geneva, 2015, 6th revised edition

Directive 2014/28 / EU (CIVEX) of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the placing on the market and supervision of explosives for civil uses

Ordinance implementing Directive 2014/28 / EU (CIVEX)

European Community Directive - 80/876 / EEC - Annex III "Determination of the resistance to detonation of ammonium nitrate"

Ordinance on the place and manner of applying the unique identification of the explosives for civil uses

Regulations on labor safety during blasting works, Sofia, 1997