

**LIST OF TESTED PRODUCTS AND TESTING METHODS FROM
“LABORATORY FOR TESTING OF EXPLOSIVES, UNITS AND EQUIPMENT
INTENDED FOR EXPLOSIVE TECHNIQUE AND TECHNOLOGY”**

№	Name of the products evaluated	Index	Measuring range	Test Method
1	2	3	4	5
1.	EXPLOSIVES	Packaging, marking and documentation	meets - does not meet	BDS 16142-85
		Detonation velocity	1000-8000 m/s	BDS EN 13631-14: 2002
		Transmission of detonation off	≥2 cm	BDS EN 13631-11: 2002
		Critical diameter	2 – 220 mm	BDS 15541-82
		Working capacity according to Trautzel	60 – 450 cm ³	BDS 15630-90
		high explosive substances/Shattering	8 – 25 mm	BDS 15539-82
		Suitability for use in methane-air atmosphere	400 – 1200 g	BDS 17361-94
		Suitability for use in coal dust	500 - 700 g	BDS 17361-94
		Sensitivity to impact	2 - 50 J	BDS EN 13631-4: 2002
		Sensitivity to friction	80 - 360 N	BDS EN 13631-3: 2002
		Minimum intermediate detonator	10 - 400 g	BDS 15832-84 BDS EN 13631:10
		Detonation ability of KD № 3	1000 - 8000 m/s	BDS 15540-82 BDS EN 13631:10
		Completeness of detonation	1000-8000 m/s	BDS 15000-80
		Chemical composition	0 – 100 %	BDS 14850-79 BDS 14957-80 BDS 14948-79 BDS 15031-80 BDS 15015-80 BDS 15030-80 BDS 15032:1999 BDS 15992-84
		Resistance to water	2 – 80 cm	BDS EN 13631-5: 2002
		Hygroscopicity	0 – 100 %	BDS 14634-84
		Moisture and volatile	0-100 %	BDS 15032:1999
Sintering	1 – 20 cm	BDS 16141-85		
Grain size	0 – 100 %	BDS 14601:1998		
Density	400-1600 kg/m	BDS EN 13631-13: 2002		
Mass of paper and paraffin	1,5 - 2,5 g/100 g explosives	BDS 15029-80		

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		Toxic gases in conditional CO	10 - 300 l/kg BB	BDS 15410-81
		Chemical stability	10 - 15 min	BDS 16140-85
		Exudation	eksudira - not eksudira	BDS 15923-84
		Flashpoint	150 - 400°C	BDS 15856-84
		Hardening temperature of TNT	75 - 85°C	BDS 15834-84
		Cartridge diameter	10 - 92 mm	BDS 15397-81
		Physical stability of mixtures neftoselitreni	0 - 100%	BDS 17408:1999
		Thermal resistance	75°C	BDS EN 13631-2: 2003
		Resistance to hydrostatic pressure	0,1 - 5 Mpa	BDS EN 13631- 6:2003
		Determining the means of initiation	1000 - 8000 m/s	BDS EN 13631-10: 2004
		Safety and reliability at extreme temperatures	minus 50 - 200°C	BDS EN 13631- 7:2004
2.	DETONATING CORD	Packaging, marking, appearance	meets - does not meet	BDS 12428-79
		Diameter	3 -40 mm	BDS 12428-79
		Length	10 - 250 m	BDS 12428-79
		Mass of the explosive per meter DC	5 - 200 g	BDS 12428-79
		Thermal resistance	75°C/24 h	BDS EN 13630- 2:2002
		Cold resistance	minus 35°C/6h	BDS 12428-79
		Resistance to water	0.5m/400 N/24 h	BDS EN 13630- 8:2002
		Sensitivity to open fire	sustainable not sustainable	BDS 12428-79
		Resistance to tensile	50 kg 400N/30 min	BDS 12428-79 BDS EN 13630- 6:2002
		Sensitivity to impact	0 % 10 - 50 J	BDS 12428-79 BDS EN 13630- 4:2002
		Resistance to abrasion	Yes / No	BDS EN 13630:5 2003
		Detonation ability to KD № 8 or ED	complete or incomplete detonation	BDS 12428-79
		Sensitivity to friction of the core of the explosive	30 - 360 N	BDS EN 13630- 3:2002
		Initiating capability of detonating cord	complete or incomplete detonation	BDS EN 13630- 7:2002

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		Transmission of detonation from detonating cord to detonating cord	complete or incomplete detonation	BDS 12428-79
		Initiating capability of detonating cord	complete or incomplete detonation	BDS 12428-79
		Velocity of detonation of detonating cord	5500-7000 m/s	BDS EN 13630-11: 2002
3.	SAFETY FUSES	appearance, packaging marking and dimensions	meets - does not meet	BDS 1524-76
		Thermal resistance	50 °C/6 h 75 °C/48h	BDS 1524-76 BDS EN 13630-2: 2003
		Cold resistance	minus 35°C /6 h	BDS 1524-76
		Watertight	1 - 6 h	BDS 1524-76 BDS EN 13630:3
		Duration of combustion of the bobbin	50 - 85 s	BDS 1524-76 BDS EN 13630-12:2002
		Mass of gunpowder in 1 meter	5 - 7 g	BDS 1524-76
		Nature and completeness of combustion	full - not complete combustion	BDS 1524-76
4.	INTERMEDIATE DETONATORS (TNT PRESSES, TNT CHARGES, BOOTERS)	Appearance, packaging marking and dimensions	meets - does not meet	BDS 14758-97 BDS 16142-82
		Chemical composition	0-100 %	BDS 14850-79
		Density	1,5- 1,59 g/cm ²	BDS EN 13631-13: 2002
		Resistance to low and high temperatures	-70 to 100 °C	BDS EN 13631-7: 2003
		Thermal resistance	75° C for 48h	BDS EN 13631-2: 2002
		Detonation ability to KD № 8, DC or ED	complete or incomplete detonation	BDS 14758-97
		Velocity of detonation	6000 - 7000 m/s	BDS 14758-97 BDS EN13631-14: 2003
		Determining the means of initiation	complete or incomplete detonation	BDS EN13631-10: 2003
		Waterproof	1 - 3 MPa	BDS EN13631-5: 2002 BDS EN13631-6: 2002

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5.	NON-ELECTRICAL DETONATORS, SHOCK TUBES, SURFACE CONNECTORS, RELAYS AND CONNECTING ACCESSORIES	Thermal resistance	75 °C/48h	BDS EN 13763-2:2003
		Sensitivity to impact	2 kg from 2 m	BDS EN 13763-3:2003
		Resistance to abrasion of leading wires and shock tubes	function / does not function	BDS EN 13763-4:2004
		Resistance to cutting damage of leading wires and shock tubes	function / does not function	BDS EN 13763-5:2004
		Mechanical strength of leading wires, shock tubes, connections, crimps and closures	function / does not function	BDS EN 13763-7:2004
		Resistance to bending of detonators	function / does not function	BDS EN 13763-9:2004
		Resistance to damage by dropping of detonators and relays	function / does not function	BDS EN 13763-11:2004
		Resistance to hydrostatic pressure	function / does not function	BDS EN 13763-12:2004
		Equivalent initiating capability	function / does not function	BDS EN 13763-15:2006
		Delay accuracy	function / does not function	BDS EN 13763-16:2004
		Shock-wave velocity of shock tube	± 10% of the speed specified by the manufacturer	BDS EN 13763-23:2003
		Electrical non-conductivity of shock tube	≥0,1 GΩ	BDS EN 13763-24:2003
		Transfer capability of surface connectors, relay and coupling accessories	According to the manufacturer's manual	EN 13763-25:2006
6.	REPOSITORIES VALUES	Resistance burglary - blasting tests		EN 1 143-1 EN 1 143