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Best Reliable Explosive Solutions



www.midyatpatlayici.com.tr

Midyat Explosives Industry is a leader in the production of high quality explosives and light weapons ammunition, and is constantly advancing for customer satisfaction and reliable solutions.

Midyat Explosive Materials Industry operates in Midyat district of Mardin province, with an open factory area of 341,000 square meters and a closed area of 5,000 square meters. Established in 2010, the company produces high-quality explosives for the mining industry, as well as civilian explosives used in the construction sector and specific branches of the military.

Through our modern production facilities and high-capacity explosive material warehouses, our company manufactures civilian explosives and light weapon ammunition products in compliance with the latest security and quality standards. We also focus on continuous quality control processes to provide customers with safe and effective solutions.

Since 2017, Midyat Explosive Materials Industry has started production of light weapon ammunition at its NATO Facility Security Certified facilities. Our company manufactures light weapon ammunition in '9x19 mm', '5.56x45 mm', and '7.62x51 mm' calibers in accordance with NATO standards. We offer reliable and performance-oriented solutions for the defense sector.

Midyat Explosive Materials Industry has been continuously investing and operating since 1995, designing its facilities in accordance with international quality and security standards. We continuously strive to develop innovative solutions to meet and exceed customer needs and expectations. Our company aims to maintain the highest level of customer satisfaction and is consistently making progress.



We Provide Best Services

Few Reasons Why People Choosing Us!

MPS provides reliable, innovative products and global support for mining and construction industries, ensuring efficiency and safety.

Compatible Products and Services

We are a reliable solution partner in line with our experience and references, with explosive products and services for mining, construction, quarrying and similar industries.

Innovation and Efficient Solutions

Make your operations more efficient and safe by using innovative products and technologies that we have brought to the sector with our R&D studies.

Global Presence and Support

At MPS, We take pride in our extensive global presence and dedicated support network, ensuring that our customers receive reliable and responsive service across the world, backed by our deep industry expertise and commitment to safety.



Blasting Services



Our comprehensive blasting services offer tailored solutions for various industries, including mining, construction, and quarrying. With our cutting-edge technology and experienced team, we ensure precise and efficient blasting operations that optimize productivity and safety.

Engineering Services



Our comprehensive engineering services provide clients with expert support throughout every stage of their projects. From feasibility studies and design to implementation and optimization, our team of experienced engineers offers innovative solutions tailored to meet the unique challenges of each industry.

Bulk Operation Explosion



Our bulk operation explosion services offer efficient and safe solutions for large-scale operations. With our state-of-the-art equipment and expertise in handling bulk explosive materials, we provide reliable blasting services that maximize productivity while ensuring the highest levels of safety.

5,56x45 mm
[M193]



Parameter	Specification
Cartridge Length	57,4mm(-0,7)
Cartridge Weight	~ 11.5 g
Speed, 24 m	965 ± 15 m/s
Muzzle Pressure	Port - 3Sd > 1030 Bar
Case mouth pressure	Pmax+ 3Sd < 4450 Bar
Distribution, 100 m	max. 2.7 cm
Case Type	5.56x45 mm Case
Case Material	CuZn30
Bullet Material	Brass, Lead core Lead-antimony alloy
Primer	4.4 Boxer Primer
Powder type	Double Base Ball Powder
Bullet Weight	55 grain (3.56g)

5,56x45 mm
SS109 (M855)

Parameter	Specification
Cartridge Length	57,4mm(-0,7)
Cartridge Weight	~ 12.2 g
Speed, 24 m	920 ± 20 m/s
Muzzle Pressure	Port - 3Sd > 1030 Bar
Case mouth pressure	Pmax+ 3Sd < 4450 Bar
Distribution, 100 m	max. 2.7 cm
Case Type	5.56x45 mm Case
Case Material	Brass CuZn28 or CuZn30
Bullet Material	Jacket: Tombac (CuZn10) Core: Steel Tip and Lead
Primer	4.4 Boxer Primer
Powder type	Double Base Ball Powder
Bullet Weight	62 grain (4.0 g)



9x19 mm
HOLLOWPOINT

Parameter	Specification
Bullet Weight	8 g / 124 grain
Muzzle Speed (16m)	350±10 m/s
Pressure	2350 bar
Effects	High Destructive Capability
Max. Pressure	Max. 2650 bar
Deviation Radius	Max. 7.6 cm (in 50 meters)
Primer type	4.4 Boxer Primer
Bullet type	JHP (Jacketed Blank Point)
Propellant and Primer	Muzzle flash — Boxer Primer



Parameter	Specification
Caliber	9 mm
Case Lenght	19.15 mm
Bullet weight	7.45 g (115 grain)
Total Lenght	max. 29.69 mm
Case material	Brass (CuZn30)
Max. Pressure	2600 Bar (Case mouth)
Bullet type	FMJ (Full Metal Jacket),
Muzzle Speed	340-365 m/s
Primer	4.4 Boxer Primer

9x19 mm
115 gr LUGER



9x19 mm
124 gr LUGER

Parameter	Specification
Caliber	9 mm
Case Length	19.15 mm
Bullet weight	8.04 g (124 grain)
Total Length	max. 29.69 mm
Case material	Brass (CuZn30)
Max. Pressure	2600 Bar(Case Mouth)
Bullet type	FMJ (Full Metal Jacket)
Muzzle Speed	340-365 m/s
Primer	4.4 Boxer Primer



9x19 mm
124 gr PARABELLUM

Parameter	Specification
Cartridge Length	29.69 mm
Cartridge Weight	~12.15 g
Speed (m/s)	370± 10 m/s (16 m)
Standart deviation speed	max. 9 m/s
Average Case Mouth Pressure	Pmax + 3Sd < 2850 bar
Dispersion	Average Dispersionq Radius max. 7.6 cm (46 m)
Projectile Impact Force	min. 20.4 kgf
Case Model Number	9 mmx19 Parabellum Case
Bullet type	FMJ
Case material	Brass (CuZn30)
Bullet material	Lead-Antimony Alloy
Primer	4.4 Boxer Primer
Powder	Ball Powder
Bullet weight	8 ± 0.075 g



7,62x39 mm M67

Parameter	Specification
Caliber	7.62 mm
Case Length	39 mm
Bullet weight	8.0 g (123 grain)
Case material	Brass CuZn30
Max. Pressure	355 MPa (51,488 psi)
Bullet type	"Jacket - Tombak Core Lead - Lead Antimony"
Muzzle Speed	710 m/s (± 10 m/s)
Primer	7,62 mm Boxer Primert



7,62x51mm M80

Parameter	Specification
Cartridge Length	max. 71.12 mm
Cartridge Weight	~24 g
Speed (24 m)	830 $\pm$ 10 m/s
Muzzle Pressure	Port + 3Sd > 560 Bar
Case mouth Pressure	Pmax + 3Sd < 4450 Bar
Deviation	550m'de Max. 12,7 cm
Projectile Ignition Time	max. 4 ms
Case model number	7.62x51 mm Case
Case material	Brass (CuZn28 or CuZn30)
Bullet material	Tombak , Lead Core (Lead-Antimony Alloy)
Primer	7.62 mm Boxer Primer
Powder	Ball Powder
Bullet weight	149 gr (~9.67 g)



MPS EX150



MPS EX150 is a water-resistant emulsion explosive equivalent to dynamite. MPS EX150 is a new generation emulsion explosive designed for difficult conditions. It is produced for use in underground and surface mining and tunnel excavation works, especially in small diameter holes. It provides high efficiency and work safety in all kinds of rock conditions.

IGNITION APPLICATION

MPS EX150, which provides an environment resistant to friction and impact compared to its equivalent nitroglycerin-based explosive materials, is perfectly resistant to water and the gases released after explosion in underground applications are very low. Gold 150 is in class 1 in smoke classification. It is used as a baiting explosive in all kinds of underground and aboveground blasting, final cutting, preliminary cutting, step and channel blasting.

PACKAGING PRODUCT DIMENSIONS

The clip-on-both-sides cartridges listed below are manufactured in high-density PE. The cartridges are in cardboard boxes of 20 kilograms each.

STORAGE TRANSPORTATION ATTENTION

Explosives should be stored in well-ventilated, dry warehouses in accordance with the regulations. MPS EX150; It should never be used in underground facilities containing explosive gas and methane gas.

- BM Name: Explosive Material Type E
- BM Number: 0241
- IMDG Code: 1.1 D

WHERE IT IS USED

- All kinds of underground and tunnel blasting
- In open pit blasting
- In all construction projects
- In pre-cutting applications
- In patar beats
- In all special blasting applications

ADVANTAGES

- Provides better fragmentation thanks to its high blasting speed.
- Reliable use with high sensitivity
- Reliable use against friction and impacts
- Low gas output after blasting
- Excellent resistance to water

Standard Cartridge Dimensions (mm)	Cartridge weight (gr)	Number of Cartridges in a Box (mm)
27x235	160	80
32x265	250	50
32x425	400	80
34x230	250	50
34x360	400	80
36x215	250	40
36x420	500	40
38x370	500	40
40x340	500	40

Thermodynamic Technical Specifications	Unit	MPS EX150
VOD in 40mm Cartridge Steel Tube	m/s	5000 - 5500
Energy	kJ/kg	4455
Heat of Explosion	°K	2950
Gas Volume	lt/kg	890
Intensity	g/cm3	1.18-1.20
Water Resistance	-	Perfect

MPS EX100



MPS EX100 is a water-resistant emulsion explosive equivalent to dynamite. It is produced to be used for underground and surface mining operations, and generally for feeding purposes in wide openings.

IGNITION APPLICATION

It is used as an explosive for baiting purposes in all kinds of underground and aboveground step laying, blasting and canal blasting. Its water resistance is excellent, and its production in different diameters and lengths provides the opportunity to feed in one piece. It is an ideal emulsion explosive for Anfo and all other bait-sensitive explosives.

PACKAGING PRODUCT DIMENSIONS

The clip-on-both-sides cartridges listed below are manufactured in high-density PE. The cartridges are in cardboard boxes of 20 kilograms each.

STORAGE TRANSPORTATION ATTENTION

Explosives should be stored in well-ventilated, dry warehouses in accordance with the regulations. MPS EX100; It should never be used in underground facilities containing explosive gas and methane gas.

- BM Name: Explosive Material Type E
- BM Number: 0241
- IMDG Code: 1.1 D

WHERE IT IS USED

- In Open Pit Blastings,
- In Surface Coal Mining Production and Decoupage Works
- In Surface Metal Mining Production and Decoupage Works
- Production Explosions in Quarries
- In Dam and Road Construction Works
- In Special Blasting Applications

ADVANTAGES

- It provides better fragmentation thanks to its high blasting speed.
- Reliable use with high sensitivity.
- Reliable use against friction and impacts.
- Low gas release after blasting.
- Excellent resistance to water.

Standard Cartridge Dimensions (mm)	Cartridge weight (gr)	Number of Cartridges in a Box (mm)
50x220	500	40
50x430	1000	20
65x255	1000	20
65x485	2000	10
75x190	1000	20
75x280	2000	10
90x150	1000	20
90x260	2000	10

Thermodynamic Technical Specifications	Unit	MPS EX100
Energy	kJ/kg	3670
Heat of Explosion	°K	2515
Gas Volume	lt/kg	958
Intensity	g/cm3	1.20
Water Resistance	-	Perfect

MPS
EMULSION



MPS EX1000, EX6000, EX6500, EX7500 and EX8000 are produced with new generation emulsion technology and consist of a mixture of emulsion and amphi in different proportions for use in different rock structures. It shows excellent performance especially in aqueous formations.

IGNITION APPLICATION

Feeding-sensitive emulsion explosives are produced as standard PE plastic cartridges of different diameters. Explosives selected in accordance with the rock conditions and hole diameter are ignited with capsule-sensitive explosives equivalent to dynamite.

PACKAGING PRODUCT DIMENSIONS

Emulsion explosives are produced in standard PE single-sided clip-on cartridges listed below. Cartridges are in special boxes of 20 kilograms each.

STORAGE TRANSPORTATION ATTENTION

Explosives should be stored in well-ventilated, dry warehouses in accordance with the regulations

- BM Name: Explosive Material Type E
- BM Number: 0241
- IMDG Code: 1.1 D

Standard Cartridge Dimensions (mm)	Cartridge weight (gr)	Number of Cartridges in a Box (mm)
65x500	2.00	10
75x450	2.50	8
85x570	4.00	5
125x560	10.00	2
140x520	10.00	2

Thermodynamic Technical Specifications	Unit	MPS EX1000	MPS EX6000	MPS EX6500	MPS EX7500	MPS EX7500
VOD in 125mm Cartridge Steel TubeEnergy	m/s	5000 - 5500	5000 - 5500	5000 - 5500	5000 - 5500	5000 - 5500
Ideal Explosion Temperature	°K	2240	2815	2390	2325	2300
Intensity	g/cm3	1.23 - 1.24	1.24 - 1.25	1.26 - 1.28	1.26 - 1.28	1.26 - 1.28
Water Resistance	-	Perfect	Perfect	Perfect	Perfect	Perfect
Recommended Rock Type for Use	g/cm3	Very Hard	Soft	Medium Hard	Hard	Very Hard

MPS ANFO

MPS Anfo is a free-flowing mixture obtained from the mixture of poros prill ammonium nitrate and diesel fuel for high quality blasting purposes. The mixture for use in dry holes contains 94% poros prill ammonium nitrate and 6% diesel, considering the oxygen balance.

IGNITION APPLICATION

MPS Anfo is designed to be used in dry holes as the main charge in all mining, quarrying and construction works. It is not recommended to use this explosive mixture, which has high translational energy, in hole diameters smaller than 50 mm. To fill the holes, it can be easily charged freely in vertical holes because it is in the form of fluidized prills. MPS Anfo is an explosive sensitive to baiting. It is ignited with dynamite or similar cap-sensitive high explosives.

PACKAGING PRODUCT DIMENSIONS

MPS Anfo is in 25 kg double-layer PP/PE bags. Other sizes required for special applications can be produced upon order.

STORAGE TRANSPORTATION ATTENTION

Explosives should be stored in well-ventilated, dry warehouses in accordance with the regulations.

- BM Name: Explosive Material Type E
- BM Number: 0282
- IMDG Code: 1.1 D

WHERE IT IS USED

- In Open Pit Blastings,
- In Surface Coal Mining Production and Stripping Works
- In Surface Metal Mining Production and Pickling Works
- Production Explosions in Quarries
- In Dam and Road Construction Works
- In Special Blasting Applications

Thermodynamic Technical Specifications	Unit	MPS ANFO
Ideal Explosion Temperature	m/s	4796
VOD in 125mm Cartridge Steel Tube	kJ/kg	3500 - 4000
Ideal Blasting PressureGpa	Gpa	4.87
Ideal Blasting Temperature	°K	3049
Densityg/cm3	g/cm3	0.78 - 0.80
Water Resistance	-	Null

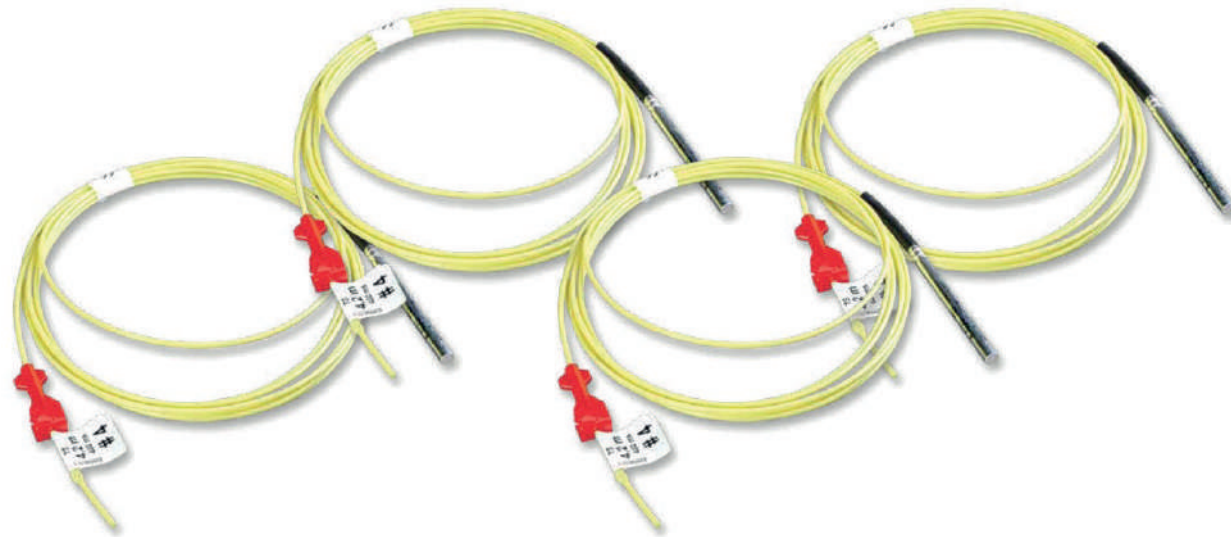


MPS TS

In-hole - TS series capsule products are available in 26 consecutive full series with durations from 100 ms to 8500 ms. It is preferred in tunnel and underground mining operations.

WHERE IT IS USED

- It can be used safely in aqueous environments.
- Connection is easy and fast.
- It is resistant to all kinds of mechanical impact and friction.
- It is resistant to foreign energy sources.



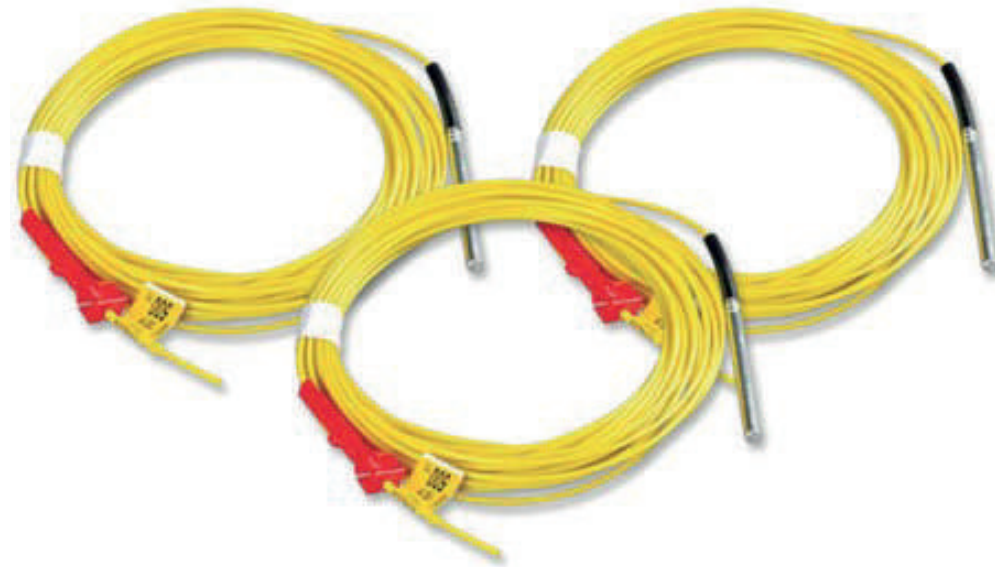
Parameter	Specification
Capsule Shell Material	Aluminum
Delay Interval	100/200/300/.../8500
Delay Count	26
Charge Base	500-800 mg PETN
Primary Detonator	Lead Azide
Folding	3
Cap	Plastic Cap
Shock Tube Material	Hard Plastic
Color	Yellow
Shock Tube Lengths	Variable According to Customer's Request
Electrostatic Resistance	20kV, 500pF 1kV AC/50 Hz/60 sec.
Water Pressure Resistance	0.3 MPa/7 days
Mechanical Strength of the Capsule Assembly	Greater than 40N
Application Temperature Range	-30°C < Tz+50°C
Shelf Life	2 years (-30°C to +40°C)
Shipping Classification	1.1B
UN Code	0360

MPS MS

In-hole MS-500 delay capsule is produced in the more preferred formats of 450, 475, 500 ms.

WHERE IT IS USED

- Easy to use
- Suitable for use in open pit mining, quarries, construction works and underground applications.
- It is resistant to all kinds of mechanical impact and friction.



Parameter	Specification
Capsule Shell Material	Aluminum
Delay Range	450 / 475 / 500 MS
Number of Delays	3
Charging Base	500-800 mg PETN
First Explosive Article	Dextrinated Lead Azide
Folding	20
Tara	3
Shock Tube Material	Hard plastic
Colour	Yellow
Shock Tube Lengths	Variable According to Customer Request
Electrostatic Resistivity	20kV, 500pF 1kV AC/50 Hz/60 sec.
Water Pressure resistivity	0.3 Mpa/7 days
Mechanical Strength of Capsule Assembly	>40N
Application Temperature Range	-30°C < Tz 50°C
Shelf life	2 years (-30°C to 40°C)
Shipping Classification	1.1B
UN code	0360

MPS SF

Surface fasteners are generally designed for starting shock tube capsules as an inter-hole delay. Surface connections are equipped with connection headers that can accommodate 5 shock tube outlets.

WHERE IT IS USED

- Easy connection
- Color coding of the capsule according to delay time
- It is resistant to foreign energy sources.
- There are 5 delays: 17, 25, 42, 67, 109 ms.



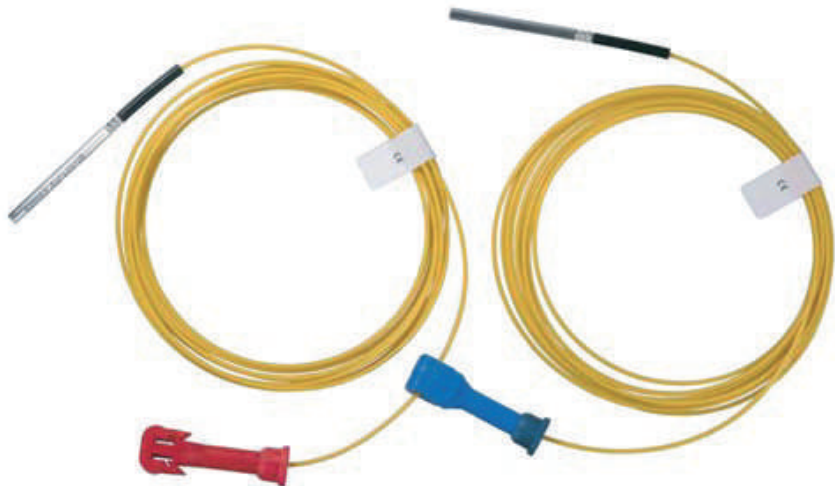
Parameter	Specification
Capsule Shell Material	Aluminum
Delay Range	17 / 25 / 42 / 67 / 109
Charging Base	500-800 mg PETN
First Explosive Article	Dextrinated Lead Azide
Folding	3
Shock Tube Material	Hard plastic
Colour	Red
Shock Tube Lengths	Variable According to Customer Request
Electrostatic Resistivity	20kV, 500pF I 1kV AC/50 Hz/60 sec.
Water Pressure resistivity	0.3 Mpa/7 days
Mechanical Strength of Capsule Assembly	>40N
Application Temperature Range	-30°C < Tz 50°C
Shelf life	2 years (-30°C to 40°C)
Shipping Classification	1.4S
UN code	0500

MPS DUAL

Double delay capsules are non-electrical capsules designed to be used in above-ground blasting, combining surface fasteners and in-hole delay capsules in a single product.

WHERE IT IS USED

- Since two different products come together, it provides ease of storage and transportation.
- Since it requires a small number of fasteners, it is easier and faster to connect the blasting design to be applied in the field.
- It is preferred in open pit mining, quarries and channel blasting.
- It facilitates the connection control of the blasting design.
- It is resistant to all kinds of mechanical impact and friction.



Parameter	Specification
Capsule Shell Material	Aluminum
Delay Range	Dual Delay ↘Earth Surface: 17 25 42,67 ↘Inside the Hole: 475,500 300,475,500 475,500
Charging Base	720 mg PETN
First Explosive Article	Dextrinated Lead Azide
Manufacturer Mark	20
Folding	3
Shock Tube Material	Hard plastic
Colour	Yellow
Shock Tube Lengths	Variable According to Customer Request
Electrostatic Resistivity	20kV, 500pF 1kV AC/50 Hz/60 sec.
Water Pressure resistivity	0.3 Mpa/7 days
Mechanical Strength of Capsule Assembly	>40N
Application Temperature Range	-30°C < Tz 50°C
Shelf life	2 years (-30°C to 40°C)
Shipping Classification	1.1B
UN code	0360

DETONATING CORD



DETONATINGCORD is the firing system used in all kinds of surface and blasting operations. It is easy to use, fast, practical and safe. In the classification of ignition records, it is classified as a non-electric ignition system. PETN forms the inner part of DETONATINGCORD. There is textile knitting around PETN. On the outside, the detonating cord is covered with PVC. While this coating protects the wick, external factors and weather conditions ensure that PETN is installed without any problems. It is determined depending on the amount of PETN provided by DETONATINGCORD in one meter. These amounts are classified as 5gr, 6gr, 10gr, 12gr, 20gr, 40gr and 80gr.

AREAS OF USE

- In open pit and tunnel explosions,
- In surface coal mining production and stripping works,
- In underground and surface metal mining production and stripping works,
- Explosion rates in quarries,
- In open excavations in dam and highway works,
- In cement and lime factory raw material quarries,
- Special blasting applications.

ADVANTAGES

It is easy to use, practical and fast,
Delay relay hole changing delay can be made,
used in large fragmentation holes of parts (>64 mm),
Provides high occupational safety,
It is not more sensitive to friction, impact and static electricity,
It is economical,
It is easy to transport.

Electric Detonator



Capsules, which are state-of-the-art products, have superior performance and high security features. It offers a wide range of electric capsule options such as no delay, short delay and long delay.

AREAS OF USE

- In all kinds of surface and underground blasting,
- In surface coal mining production and stripping works,
- In underground coal mining,
- In surface metal mining production and stripping works,
- In blasting operations in quarries,
- In tunnel explosions,
- In open excavations in dam and highway works,
- In cement and lime factory raw material quarries,
- In special blasting applications.

ADVANTAGES

- High degree of accuracy in delays, superior performance,
- Easy and convenient transportation,
- Excellent waterproofness,
- More security against impacts and friction.

