

SARSILMAZ®

AMMUNITION & EXPLOSIVES

2018
CATALOG

SARSILMAZ®

PATLAYICI SANAYİ A.Ş.

Sarsılmaz Patlayıcı Sanayi has a total production capacity of 540.000m² in 18.800m² closed area in Balıkesir/ TÜRKİYE. Our company conducts its activities in four major and two subsidiary fields since 1995, investing continuously. The production is conducted pursuant to ISO, TSE, CE, C.I.P., SEVESO, NATO/ National Facility Security Clearance. No compromise is allowed on quality while producing and later on.

PRODUCT RANGE

Small Arms Ammunition Production

Explosive Production for Civilian Use

Hunting and Sporting Cartridge Production

Blank Cartridge Production

4.4 Boxer Primer Production

Non-El Detonator Production



SARSILMAZ®



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SARSILMAZ®

9x19 Parabellum

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9x19 mm PISTOL CARTRIDGES

9x19mm	Bullet type	Weight	Muzzle velocity	Term of reference	Primer
	 FMJ	8.0 g / 124gr	380 m/s ***	C.I.P	SAREX
	 FMJ SAR	8.0 g / 124gr	370 m/s ***	C.I.P	SAREX
	 FMJ SAR 7.5 g	7.5 g / 115gr	380 m/s ***	C.I.P	SAREX
	 NATO FMJ	8.0 g / 123gr	395 m/s ***	C.I.P	SAREX
	 NATO FMJ SAR	8.0 g / 123gr	395 m/s ***	C.I.P	SAREX
	 JHP	7.5 g / 115gr	377 m/s ***	C.I.P	SAREX





- Manufactured to SAR PARA exacting standards
- Durable copper jacketed bullets stay with the lead at impact
- Solid brass cartridges
- Dependable primers combined with clean-burning powders ensure reduced barrel fouling and more reliable functioning



BLANK CARTRIDGES



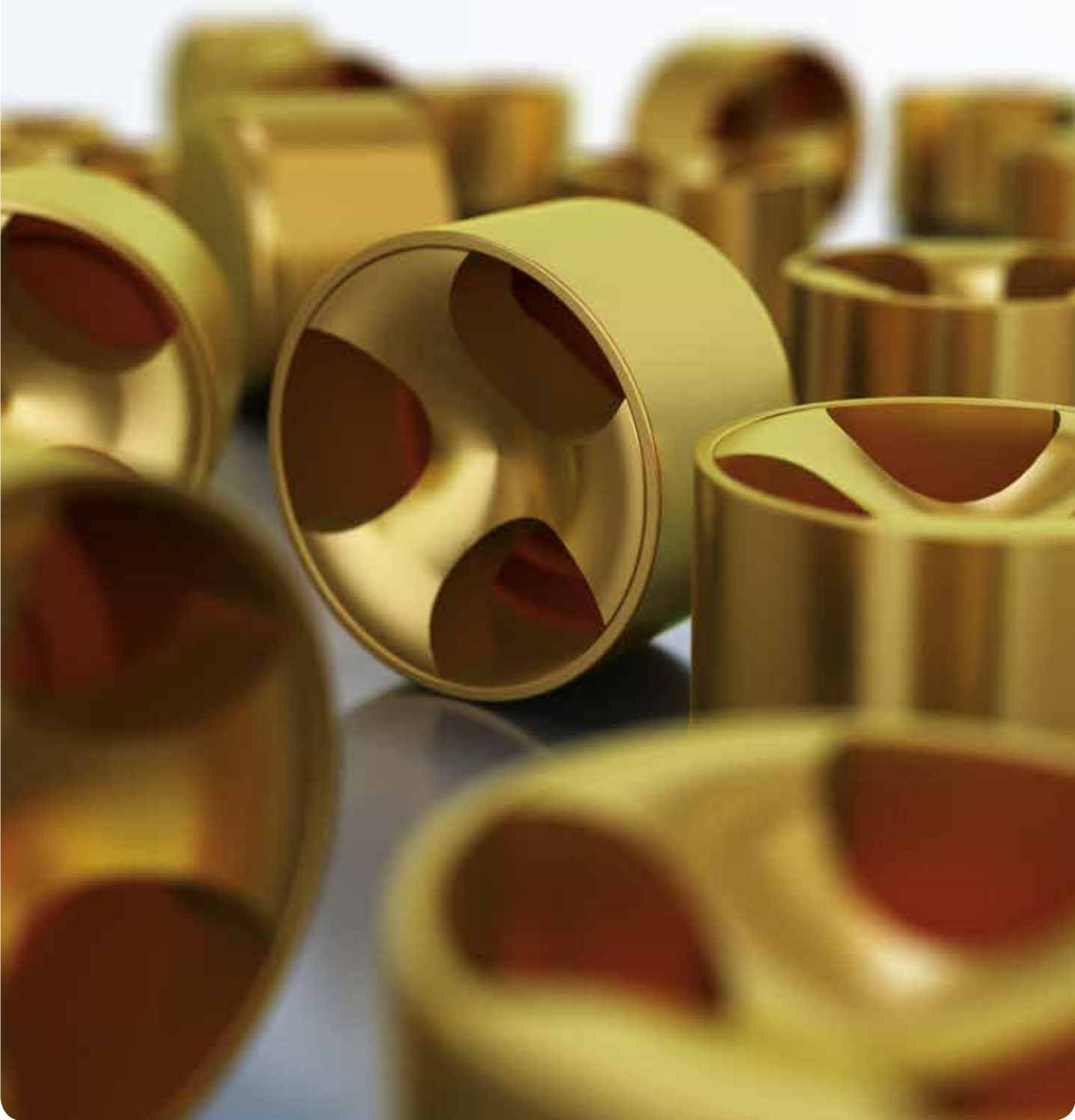
BLANK CARTRIDGES

BLANK	Bullet type	Description	Primer
	 9 x 19 Plastic Blank	Blank cartridge with plastic tip for safe simulation	SAREX
	 SAR 9mm IRON	Blank cartridge for safe simulation	HUNTING
	 SAR 9mm BRASS	Brass Blank cartridge for safe simulation	SAREX
	 SAR 8mm BRASS	Brass Blank cartridge for safe simulation	SAREX

Since 1998, Sarsilmaz has the greatest market rate in the blank cartridge production. Moreover, Sarsilmaz is in leader position having integrate production ability and technological infrastructure. Sarsilmaz is the choice of “Law Enforcement Authority” sharing experiences on Blank Cartridge and Traumatic Cartridges production.



4.4 SP



SAREX

4.4 SP BOXER PRIMERS

TECHNICAL SPECIFICATIONS	Position	Material identification	Dimensions		
	Cup	CuZn30	0,42	+ 0,02 0	mm
	Anvil	CuZn30	0,99	0 - 0,03	mm
	Cover	Paper disc	0,10	0 - 0,03	mm
	Primer Lacquers	Nitrolacquer red	-		
	Mixture	Sinoxide, non corrosive, without Hg	0,023	± 0,002	g

SENSITIVE	Ball weight	55g
	Upper statistical limit	$\bar{H} + 4S \leq 279,4\text{mm}$ (11")
	Lower statistical limit	$\bar{H} - 2S \geq 25,4\text{mm}$ (1")
	Firing pin	Ø 2mm; R1, 28mm
	Testing in cartridge case	8mm; 9mm
	Packing details	200pcs. per box, 5boxes for a total for of 1000 primers for reloading

- 9mm LUGER

8mm START

9mm KNALL

9mm PARA
- .25 ACP

380 AUTO

.38 SPECIAL



SAREX

EXPLOSIVES



SARSILMAZ PATLAYICI
PATLAYICI MADDE - EXPLOSIVES

SAREX

EXPLOSIVE BLASTING
TYPE E: UN 0241 1.1D
NET: 20KG. BRÜT: 21 KG.
NET: 20KG. GROSS: 21 KG.

SARSILMAZ PATLAYICI SANAYİ A.Ş.
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SARSILMAZ®



DESCRIPTION

Sarex Gold 150 is a dynamite equivalent explosive resistant to water. Sarex Gold 150 is a new generation emulsion explosive designed for difficult conditions. It's produced for underground and surface mining, tunnel excavation Works especially for small diameter blastholes. It provides high efficiency and safety under every kind of rock conditions.

AREAS OF USAGE

- All kinds of underground and tunnel blasts
- Open quarry blasting
- All construction projects
- Pre-splitting applications
- Boulder placing
- All custom blasting applications

ADVANTAGES

- Provides high fragmentation thanks to its high detonation velocity.
- Reliable operation with its high sensitivity.
- Reliable use against friction and impacts.
- Low gas output after the blast.
- Excellent resistance against water.

SAFETY & APPLICATION

Compared to its equivalents which are Nitroglycerin-based explosives, Sarex Gold 150 provides an environment against friction and impacts. Having excellent resistance to water, and gases are quite low after blasting underground applications. In the classification of smoke output Sarex Gold 150 is a first Class product. Used as a booster in all underground and surface placing, boulders, smooth blasting, pre-splitting, deck and channel blasting.

PACKAGING & PRODUCT SIZE

Both sides clipped cartridges are produced in high density PE listed below. Cartridges are packed in carton boxes 20 kg each.

STORAGE & TRANSPORT & ATTENTION

Must be stored and protected according to the rules in a dry, well-ventilated warehouse. Sarex Gold 150; absolutely should not be used in underground operations where explosive gases such as methane are present.

UN Classification : Explosives Type E
UN No : 0241
IMDG (sea) Code/Class : 1.1 D

Standart Cartridge Sizes (mm)	Cartridge Weight (gr)	Cartridge in Per Box (price)
27x235	160	125
32x265	250	80
32x425	400	50
34x230	250	80
34x360	400	50
36x215	250	80
36x420	500	40
38x370	500	40
40x340	500	40

Thermodynamic Technical Properties	Unit	Sarex Gold 150
VOD at 40mm steel tube case	m/s	5000 - 5500
Energy of explosion	kJ/kg	4455
Ideal Detonation Temperature	°K	2950
Gas Volume	lt/kg	890
Density	g/cm³	1.18-1.20
Water Resistance	-	Excellent



DESCRIPTION

Sarex Gold 100 is a dynamite equivalent explosive resistant to water. It is produced for underground and surface mining projects, usually with the purpose of a booster in large diameter blastholes.

AREAS OF USAGE

- Open quarry blasting
- Aboveground coal mining production - stripping
- Aboveground metal mining production - stripping
- Quarry production blasting
- Dam and road construction projects
- Special blasting applications

ADVANTAGES

- Provides high fragmentation thanks to its high detonation velocity.
- Reliable operation with its high sensitivity.
- Reliable use against friction and impacts.
- Low gas output after the blast.
- Excellent resistance against water.

SAFETY & APPLICATION

Used as a booster explosive for all types of underground and surface deck leaps, boulder and channel explosions. Has excellent water resistance. Produced in various diameters and lengths, it provides the ability to perform massive solid boosting. It's an ideal emulsion explosive for Anfo and all other booster sensitive explosives.

PACKAGING & PRODUCT SIZE

Both sides clipped cartridges are produced in high density PE listed below. Cartridges are packed in carton boxes 20 kg each.

STORAGE & TRANSPORT & ATTENTION

Must be stored and protected according to the rules in a dry, well-ventilated warehouse. Sarex Gold 100; absolutely should not be used in underground operations where explosive gases such as methane are present.

UN Classification : Explosives Type E
UN No : 0241
IMDG (sea) Code/Class : 1.1 D

Standart Cartridge Sizes (mm)	Cartridge Weight (gr)	Cartridge in Per Box (price)
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 Properties	Unit	Sarex Gold 100
VOD at 40mm steel tube case	m/s	5000 - 500
Energy of explosion	kJ/kg	3670
Ideal Detonation Temperature	°K	2515
Gas Volume	lt/kg	958
Density	g/cm³	1.20
Water Resistance	-	Excellent



DESCRIPTION

Produced with the new generation emulsion technology, Sarex 1000, 6000, 6500, 7500 and 8000 consists of a mixture with different ratios of emulsion and anfo to be used in different rock structures. It shows excellent performance, especially with watery formations.

SAFETY & APPLICATION

Sarex booster sensitive emulsion explosives are produced as the standard PE plastic cartridges in different diameters. Explosives which are selected according to different rock structures and the blasthole diameter are detonated by Dynamite or the equivalent high explosives which are sensitive to shock tubes.

PACKAGING & PRODUCT SIZE

Sarex emulsion explosives are produced as standard PE one sided clipped cartridges listed below. Cartridges are packed in special boxes 20 kg each.

TRANSPORT

Must be stored and protected according to the rules in a dry, well-ventilated warehouse.

UN Classification : Explosives Type E
UN No : 0241
IMDG (sea) Code/Class : 1.1 D

Thermodynamic Technical Properties	Unit	Sarex 1000	Sarex 6000	Sarex 6500	Sarex 7500	Sarex 7500
VOD at 125mm. Cartridge as Unconfined	m/s	5000 - 5500	4000 - 4500	4500 - 5000	4500 - 5000	4500 - 5000
Ideal Detonation Temperature	°K	2240	2815	2390	2325	2300
Density	g/cm ³	1.23 - 1.24	1.24 - 1.25	1.26 - 1.28	1.26 - 1.28	1.26 - 1.28
Water Resistance	-	Excellent	Excellent	Excellent	Excellent	Excellent
Recommended for use in Rock Type	-	Extra Hard	Soft	Medium - Hard	Hard	Extra Hard

Standart Cartridge Sizes (mm)	Cartridge Weight (kg)	Cartridge in Per Box (price)
65 x 500	2.00	10
75 x 450	2.00	8
85 x 570	4.00	5
125 x 650	10.00	2
140 x 520	10.00	2



DESCRIPTION

Sarex Anfo, is a mixture made up of 94% porous prill ammonium nitrate and 6% diesel oil with the purpose of high quality explosions. This mixture has a density of free-flowing nature and is to be used in boreholes with consideration of the oxygen balance factor.

AREAS OF USAGE

- Open quarry blasting
- Aboveground coal mining production - stripping
- Aboveground metal mining production - stripping
- Quarry production blasting
- Dam and road construction projects
- Special blasting applications

SAFETY & APPLICATION

As the main explosive charger in boreholes, Sarex Anfo has been designed for usage in areas such as all the mining, quarrying, and construction industries. This explosive mixture with high offset energy is not recommended to be used in blastholes with a diameter less than 50 mm. Due to its fluidal nature of free-flowing prills, vertical blastholes can be loaded easily. Sarex Anfo is a booster sensitive explosive. It is detonated by Dynamite or the equivalent high explosives which are sensitive to shock tubes.

PACKAGING & PRODUCT SIZE

Sarex Anfo is packed in 25 kg double-layer PP / PE bags. Other packaging dimensions can be provided based on special orders for special applications.

STORAGE & TRANSPORT & ATTENTION

Must be stored and protected according to the rules in a dry, well-ventilated warehouse.

UN Classification : Explosives Type E
UN No : 0282
IMDG (sea) Code/Class : 1.1 D

Thermodynamic Technical Properties	Unit	Sarex ANFO
Ideal Detonation Velocity	m/s	4796
VOD at 125mm. Cartridge as Unconfined	kJ / kg	3500 - 4000
Ideal Detonation Pressure	Gpa	4.87
Ideal Detonation Temperature	°K	3049
Density	g/cm ³	0.78 - 0.80
Water Resistance	-	Nothing



DESCRIPTION

Sarex Anfo UP is; a mixture of porous prill ammonium nitrate, diesel oil, and emulsion with consideration of the oxygen balance factor, for use in boreholes. Sarex Anfo UP is a type of booster sensitive explosive. Sarex Anfo UP; is a suitable mixture of explosives used for boreholes when the power of high explosives are required. It is a special explosive mixture formulated to stick in upside down blast holes which prevents it from pouring back down during underground applications. Sarex Anfo UP can be charged with air compression charger tools (pneumatically loaded).

ADVANTAGES

- Sarex Anfo UP; helps to achieve optimum blasting values by spreading out to the entire blasthole diameter.
- Yavex Anfo UP; are easy to use and reliable type of explosives.
- Yavex Anfo UP; enables vertical upside down boreholes to be loaded fast and efficiently with compressed pneumatic charging.

SAFETY & APPLICATION

During the compressed pneumatic loading of Sarex Anfo UP the shock tube to be used must be ensured to have anti-static properties. Strictly do not load with compressed air if the primary charge shock tubes are not protected. Sarex Anfo UP can only be used in boreholes. PACKAGING & PRODUCT SIZE Sarex Anfo is packed in 30 kg double-layer PP / PE bags. Other packaging dimensions can be provided based on special orders for special applications.

STORAGE & TRANSPORT & ATTENTION

Must be stored and protected according to the rules in a dry, well-ventilated warehouse.

UN Classification : Explosives Type B
UN No : 082
IMDG (sea) Code/Class : 1.1 D

Thermodynamic Technical Properties	Unit	Sarex ANFO UP
Ideal Detonation Velocity	m/s	5000
VOD at 125mm. Cartridge as Unconfined	kJ / kg	3500 - 4000
Density	g/cm ³	0.90
Water Resistance	-	Nothing



DESCRIPTION

Sarex Anfo LD is; a mixture of porous prill ammonium nitrate, diesel oil, emulsion and polystyrene with consideration of the oxygen balance factor, for use in boreholes. It is a type of booster sensitive explosives which has a density of free-flowing nature. Sarex Anfo LD; is a suitable mixture of explosives used for boreholes when the power of high explosives are not required. Sarex Anfo LD can be charged with air compression charger tools (pneumatically loaded) as can be charged with cast boosters.

ADVANTAGES

- Sarex Anfo LD; helps to achieve optimum blasting values by spreading out to the entire blasthole diameter.
- Sarex Anfo LD; are easy to use and reliable type of explosives.
- Sarex Anfo LD; allows open excavation blasting by minimizing vibration values that enables the use of blasting excavation works near residential areas.
- Sarex Anfo LD; enables horizontal and vertical boreholes to be loaded fast and efficiently with compressed pneumatic charging.

SAFETY & APPLICATION

During the compressed pneumatic loading of Sarex Anfo LD the shock tube to be used must be ensured to have anti-static properties. Strictly do not load with compressed air if the primary charge shock tubes are not protected. Sarex Anfo LD can only be used in boreholes.

PACKAGING & PRODUCT SIZE

Sarex Anfo LD is packed in 15 kg double-layer PP / PE bags. Other packaging dimensions can be provided based on special orders for special applications.

TRANSPORT

Must be stored and protected according to the rules in a dry, well-ventilated warehouse.

UN Classification : Explosives Type E
UN No : 0282
IMDG (sea) Code/Class : 1.1 D

Thermodynamic Technical Properties	Unit	Sarex ANFO - LD
Ideal Detonation Velocity	m/s	3500
VOD at 125mm. Cartridge as Unconfined	kJ / kg	3000 - 3500
Density	g/cm ³	0.50 - 0.52
Water Resistance	-	None

SPLITTER



DESCRIPTION
It is an emulsion explosive designed for pre-splitting applications on surface blast for slope control or for smooth blasting applications in underground mining operations for the purpose of ensuring the surroundings and environment of opened gaps. Sarex Splitter is produced in a special tube with smaller diameter than the blast hole, providing homogeneous distribution along the blast hole, therefore ensures smoother and less disturbed surfaces. It is water resistant and can be used safely in wet boreholes.

- ADVANTAGES**
- Due to Yavex Splitters high detonation velocity and low energy, it reduces explosive damage to the walls and ceiling to a minimum, leaving a smooth and less disturbed surface.
 - Sarex Splitter is water proof and can also be detonated in damp blastholes.
 - Sarex Splitter provides shorter ventilation time due to its low gas output after the underground blasts.

SAFETY & APPLICATION
Sarex Splitter cartridges are sensitive to number 8 standard detonators. Thanks to its 450 wings it centers the cartridge in the blasthole. The opened wings hold on to the blasthole walls during the blast, which prevents the cartridge to change position. Sarex Splitter tubes should be charged by attaching to each other. The head link should be inserted into the slot at the end of the other tube and twisted, thus allowing the shoulders at the head link to fit in the slots holes.

PACKAGING & PRODUCT SIZE
Sarex Splitter is produced in hard plastic tubes with 19 mm diameter and 710 mm length. Cartridges are packed in carton boxes 20 kg each.

STORAGE & TRANSPORT & ATTENTION
Must be stored and protected according to the rules in a dry, well-ventilated warehouse. Sarex Splitter; absolutely should not be used in underground operations where explosive gases such as methane are present.

UN Classification	: Explosives Type E
UN No	: 0241
IMDG (sea) Code/Class	: 1.1 D

Standart Cartridge Sizes (mm)	Cartridge Weight (gr)	Cartridge in Per Box (price)
19x710	220	167

Thermodynamic Technical Properties	Unit	Sarex Splitter
VOD at 40mm steel tube	m/s	4200
Density	g/cm³	1.15
Water Resistance	-	Excellent

SEISMIC



DESCRIPTION
Sarex Seismic is a new generation detonator sensitive emulsion explosive in a plastic cartridge. It has been produced for Seismic blasts. Sarex Seismic has high detonation velocity, which provides good sensitivity with a high detonation pressure.

SAFETY & APPLICATION
Sarex Seismic, are produced in standard sizes with matching interlocking plastic cartridges. These cartridges have a detonator chamber allowing the detonator to be mounted easily. It can be ignited with No. 8 (ordinary) detonator ignition power.

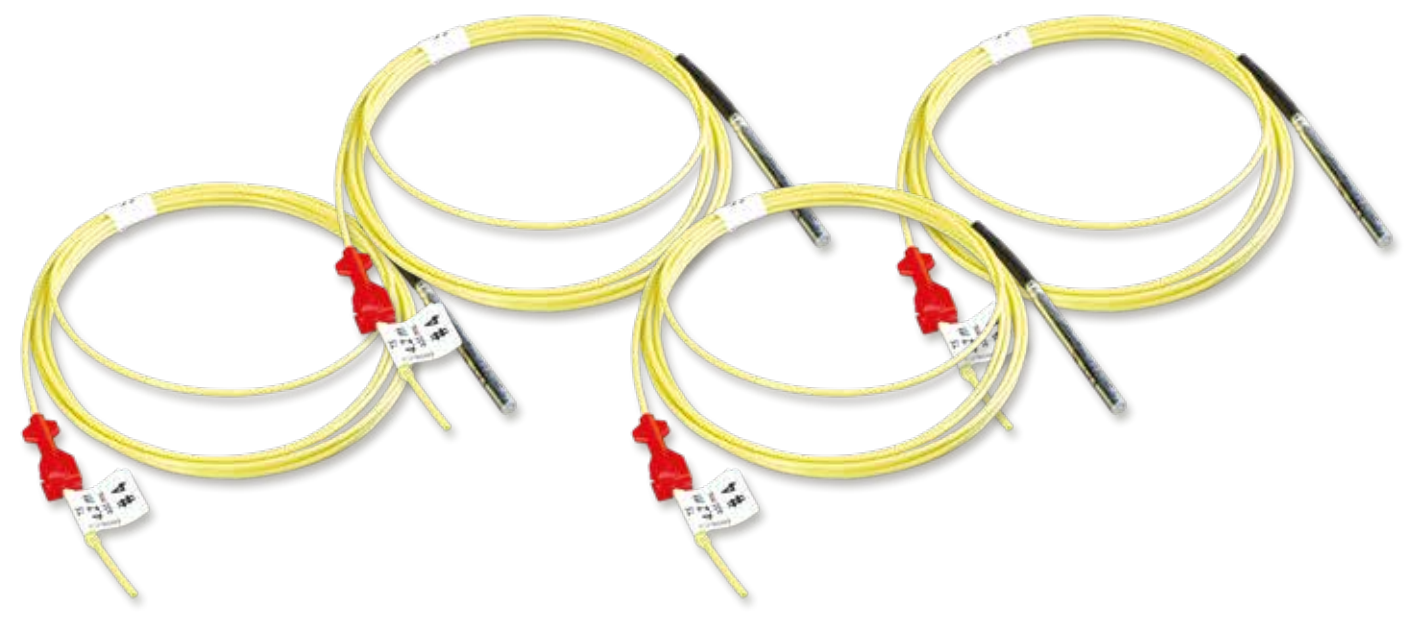
PACKAGING & PRODUCT SIZE
The following dimensions are packed as 20 kg boxes.

STORAGE & TRANSPORT & ATTENTION
Must be stored and protected according to the rules in a dry, well-ventilated warehouse.

UN Classification	: Explosives Type E
UN No	: 0241
IMDG (sea) Code/Class	: 1.1 D

Standart Cartridge Sizes (mm)	Cartridge Weight (gr)	Cartridge in Per Box (price)
50 x 225	500	40
50 x 450	1000	20

Thermodynamic Technical Properties	Unit	Sarex Seismic
VOD at 40mm steel tube	m/s	5200 - 5700
Density	g/cm³	1.20
Water Resistance	-	Excellent

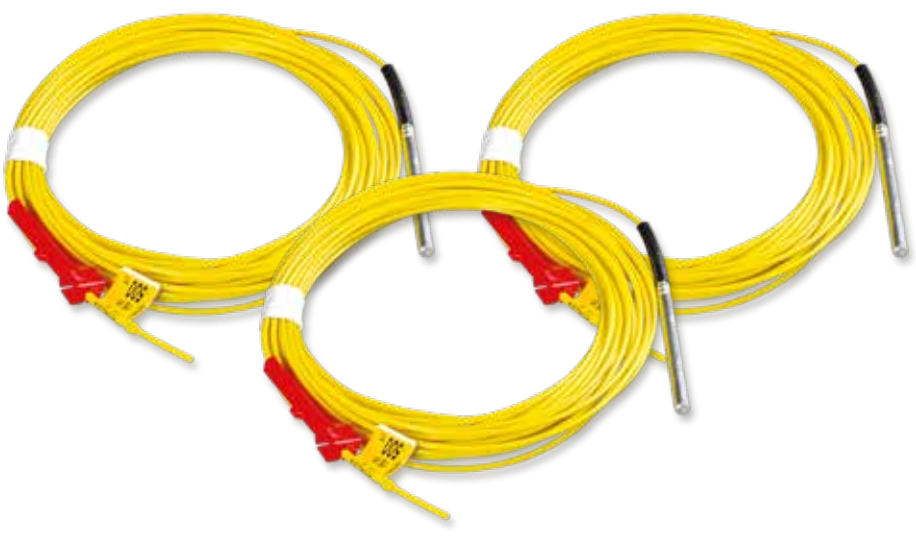


DESCRIPTION

Indetshock Tunnel Series detonator products are avaible in a sequence of 26 whole number periods from 100 ms to 8500 ms. This products are appropriate for applications such as tunneling and shaft or underground mining operations.

- Confidence in watery conditions.
- Connection is easy and fast.
- It is resistant to all kinds of mechanical impact and friction.
- Resistant to foreign sources of energy.

Name	INDETSHOCK
Shell Material	Aluminium
Delay Sequence	100 / 200 / 300 / ... / 8500
Delay Number	26
Base Charge	500-800 mg PETN
Primer	Lead Azide
Manufacturer Mark	-
Layer	3 Layers
Clip	Rubber Clip
Shock Tube Material	Surlyn / PE
Colour	Yellow
Lenghts of shock tube	Customized
Electrostatic impedance	20kV, 500pF 1kV AC/50 Hz/60 Second
Water pressure impedance	0.3 Mpa / 7 day
Shock tube mechanic strenght	> 40N
Application temperature	-30°C < T z+50°C
Shelf life	2 years (-30°C to +40°C)
Shipping Classification	1.1B
UN code	0360

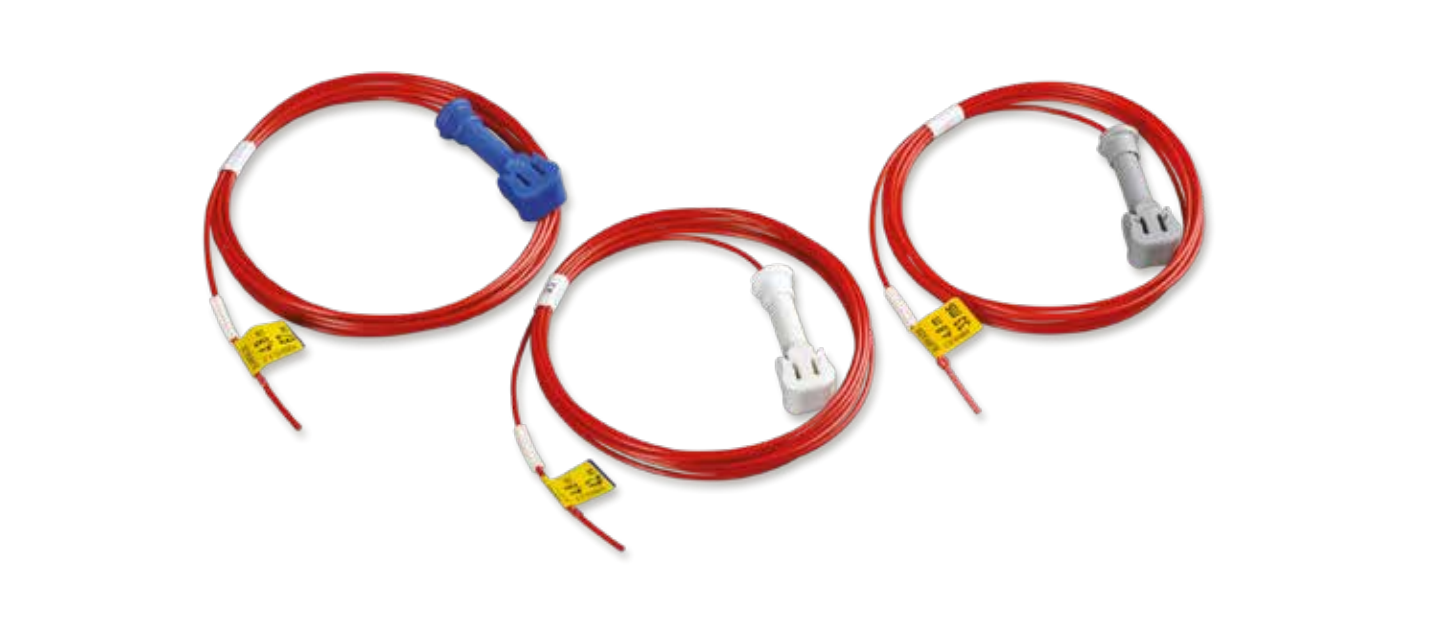


DESCRIPTION

- Indetshock ms-500 Delay detonator that is preferred too much, is produced as 450 – 475 – 500 ms.
- Utilization easily.
 - At the Open Pit Mining, Quarry, Construction Project and Underground mining operations use of this product is convenient.
 - It is resistant to all kinds of mechanical impact and friction.

Name	INDETSHOCK MS
Shell Material	Aluminium
Delay Sequence	450 / 475 /500 MS
Delay Number	3
Base Charge	500-800 mg PETN
Primer	Dexrrinated Lead Azide
Manufacturer Mark	-
Layer	3 Layers
Clip	Rubber Clip
Shock Tube Material	Surlyn / PE
Colour	Yellow
Lenghts of shock tube	Customized
Electrostatic impedance	20kV, 500pF 1kV AC/50 Hz/60 Second
Water pressure impedance	0.3 Mpa / 7 day
Shock tube mechanic strenght	> 40N
Application temperature	-30°C < T z+50°C
Shelf life	2 years (-30°C to +40°C)
Shipping Classification	1.1B
UN code	0360

SURFACE



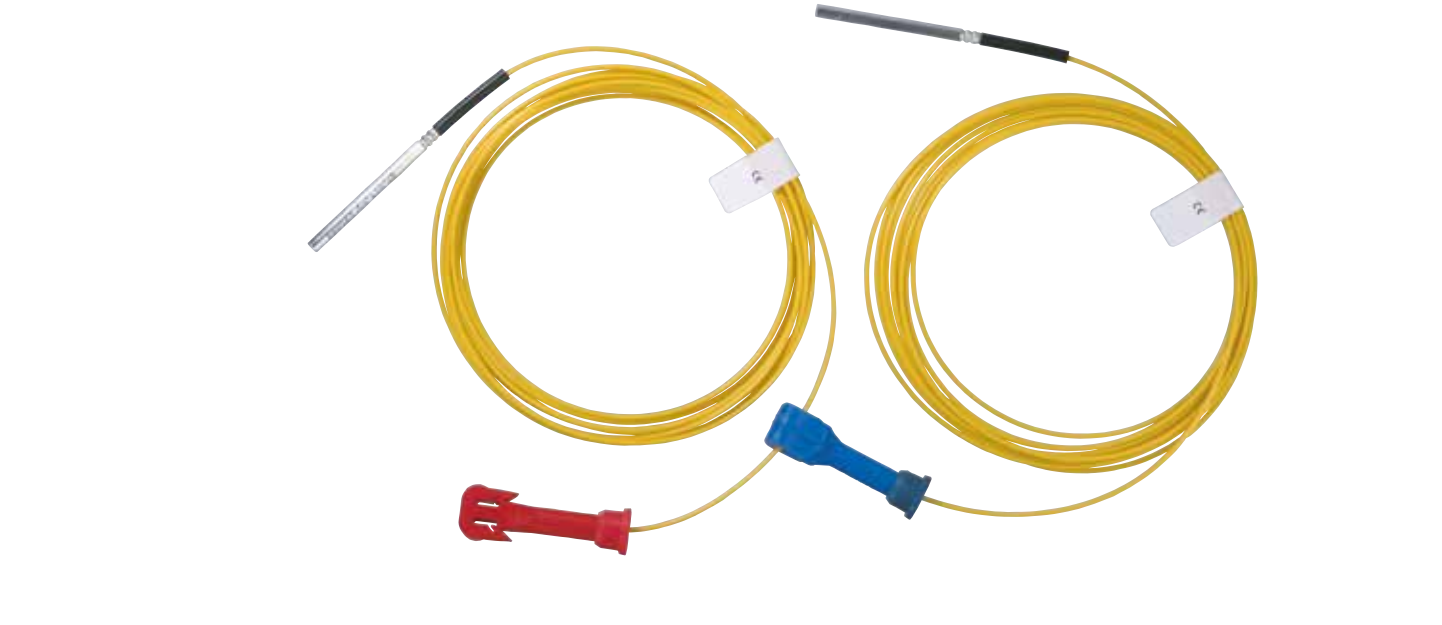
DESCRIPTION

Surface connectors are especially designed for the instiation for other shock tube detonators as a delay between holes. Surface connectors are equipped with connectors are equipped with connector black able to contain 5 outgoing shock tubes.

- Utilization easily.
- Color coding according to the delay time of the detonator.
- Resistant to foreign sources of energy.
- It is available 5 types delay as 15, 25, 42, 67, 109 ms.

Name	SURFACE
Shell Material	Aluminium
Delay Sequence	15 / 25 / 42 / 67 / 109
Base Charge	110 mg PETN
Primer	Dextrinated Lead Azide
Manufacturer Mark	-
Layer	3 Layers
Clip	Rubber Clip
Shock Tube Material	Surlyn / PE
Colour	Red
Lenghts of shock tube	Customized
Electrostatic impedance	20kV, 500pF 1kV AC/50 Hz/60 Second
Water pressure impedance	0.3 Mpa / 7 day
Shock tube mechanic strenght	> 40N
Application temperature	-30°C < T z+60°C
Shelf life	2 years (-30°C to +40°C)
Shipping Classification	1.4S
UN code	0360

DUAL DELAY



DESCRIPTION

Dual Delay Detonators are one product non-electrical detonators that combine delay detonators and surface connectors and that are designed for Open pit blasting.

- Provide storage and transportation convenience because the two-part product is in one unit.
- It is easier and quicker to apply the blasting design to be implemented at the Open pit area because of less connecting elements.
- It is preferred to apply at the Open Pit Mining, Quarry and Canal Blasting.
- Control of connection of the blasting design is easy.
- It is resistant to all kinds of mechanical impact and friction.

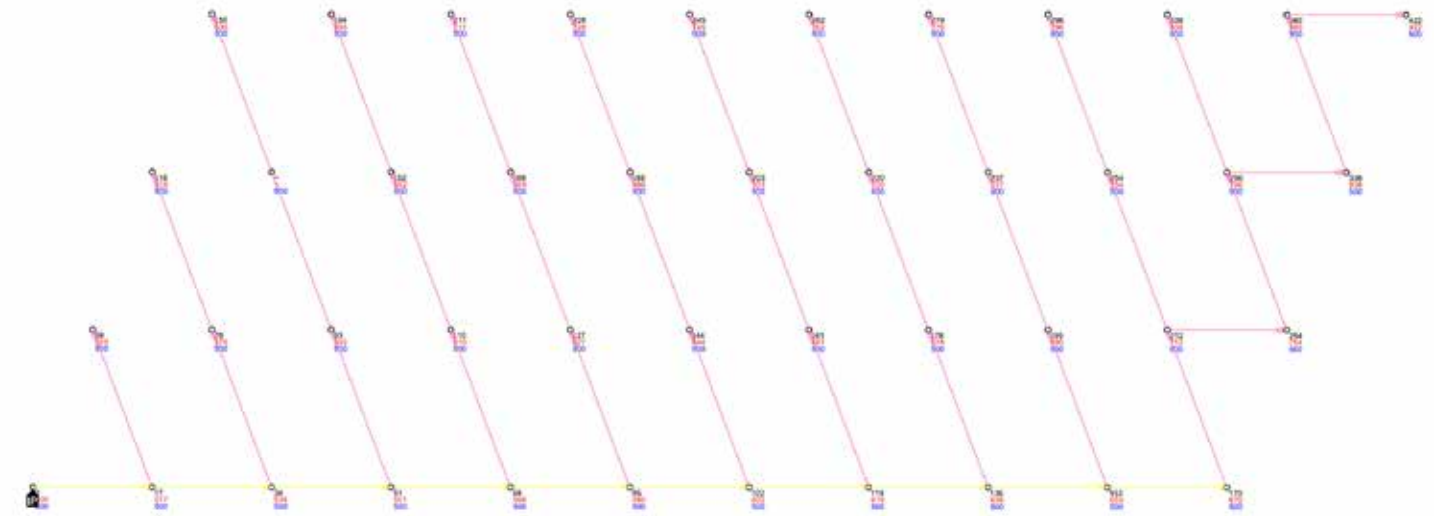
Name	DUAL DELAY	
Shell Material	Aluminium	
Delay Sequence	Shockstar Dual Delay	
	Shock Surface	Indetshock MS 25/250
		Indetshock TS
	0	800
	17	475, 500
	25	300, 475, 500
	42, 67	475, 500, 900
Base Charge	720 ma PETN	
Primer	Dextrinated Lead Azide	
Manufacturer Mark	-	
Layer	3 Layers	
Clip	Rubber Clip	
Shock Tube Material	Surlyn / PE	
Colour	Yellow	
Lengths of shock tube	Customized	
Electrostatic impedance	20kV, 500pF 1kV AC/50 Hz/60 Second	
Water pressure impedance	0.3 Mpa / 7 day	
Shock tube mechanic strenght	> 40N	
Application temperature	-30°C < T z+60°C	
Shelf life	2 years (-30°C to +40°C)	
Shipping Classification	1.1B	
UN code	0360	

BLASTING SERVICE



Major blasting excavation operations are inevitable as the modern world continues to demand the making of great construction facilities and as the mining resources are produced and processed for our everyday needs. Being aware of this, Sarex Power Team staff continues to perform the most important function of mining and construction which is the blasting, as we operate under all kinds of mining and construction site conditions with knowledge, experience, prioritizing environmental and human safety.

ENGINEERING SERVICES



Sarsilmaz Company the first 100 % native explosive manufacturer in Turkey, is not only explosive supplier of it's customer but also technical support and service supplier to them with it's highly qualified and experience technical staff of Sarex Marketing Force. Sarex Marketing Force provides to costumers with essential blasting pattern, proper delay sequence, special controlled blasting design and ground vibration control and measure.

BULK OPERATION



In order to reduce weaknesses and costs of time loss, work and employe safety and mining and construction companys which achieve high production amounts with large blasthole diameters; specially designed Anfo and Emulsion charcing truck succesfully perform Anfo , Emulsion and Anfo+Emulsion charges. Thanks to our Sarex Power Team staffs knowledge and long years of experience in this regard so that operations are performed with our Anfo and Emulsion charcing trucks product and equipped with the latest tecnology.

CONTROLLED BLASTING & SPECIAL APPLICATION



Besides the consistently applied production blasting performed in the mining and construction industries, controlled blasts and special custom blasts are needed for a variety of reasons including vibration and slope control. As Sarex Power Team we are proud to successfully complete and continue to provide services for special applications such as pre-split and smooth blasting in the mining, road construction, and dam and tunnel construction industries.



HUNTING CARTRIDGES

These hunting cartridges are produced in different types of fillings, pellet diameters and weight of load. These products are created for reaching best results in hunting.



YAF 12cal. 28g.



Product Code	RPD1228
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	28 g.
Wad	Plastic
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

YAF 12cal. 32g.



Product Code	RPD1232
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	32 g.
Wad	Plastic
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

YAF 12cal. 30g.



Product Code	RPD1230
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	30 g.
Wad	Plastic
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

YAF 12cal. 34g.

Dispersante



Product Code	RPD1234D
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Dispersante
Lead Shot Size	4 - 5 -....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

YAF 12cal.

Test Cartridges



Product Code	RPD1234T
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	32 g. & 34 g.
Wad	Plastic
Lead Shot Size	1-2-....-10-11
Pmax	1000-1500 BAR
Case&Box	25/250 pcs.

YAF 12cal. 36g.



Product Code	RPD1236
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	36 g.
Wad	Plastic
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

YAF 12cal.

Sound Cartridges



Product Code	RPD12S
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	-
Wad	Plastic
Lead Shot Size	-
Velocity	-
Case&Box	25/250 pcs.

YAF 12cal. 40g.
Super Shot



Product Code	RPD1240SS
Caliber	12 mm.
Brass Height	25 mm.
Case Height	70 mm.
Gram	40 g.
Wad	Plastic
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	10/200 pcs.

Felt - Keçe 12cal. 30g.



Product Code	ALM30
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	30 g.
Wad	Felt
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

YAF 12cal. 50g.
Magnum



Product Code	RPD1250M
Caliber	12 mm.
Brass Height	25 mm.
Case Height	76 mm.
Gram	50 g.
Wad	Plastic
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	10/200 pcs.

Felt - Keçe 12cal. 31g.



Product Code	ALM31
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	31 g.
Wad	Felt
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Felt - Keçe 12cal. 32g.



Product Code	ALM32
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	32 g.
Wad	Felt
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Felt - Keçe 12cal. 34g.



Product Code	ALM34
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Felt
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Felt - Keçe 12cal. 33g.



Product Code	ALM33
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	33 g.
Wad	Felt
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

BIOR 12cal. 28g.



Product Code	FRT1228
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	28 g.
Wad	Bior
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

BIOR 12cal. 30g.



Product Code	FRT1230
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	30 g.
Wad	Bior
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

BIOR 12cal. 33g.



Product Code	FRT1233
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	33 g.
Wad	Bior
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

BIOR 12cal. 31g.



Product Code	FRT1231
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	31 g.
Wad	Bior
Lead Shot Size	05-04-....-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Robusto 12cal. 9 Pellet



Product Code	RBS129P
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Bior
Lead Shot Size	8,6 mm.
Velocity	420 m/s
Case&Box	10/200 pcs.

Robusto 12cal. 9 Pellet

Gold



Product Code	RBS129PG
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Bior
Lead Shot Size	8,6 mm. GOLD
Velocity	420 m/s
Case&Box	10/200 pcs.

Robusto 12cal. 12 Pellet

Gold



Product Code	RBS1212PG
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Bior
Lead Shot Size	7,8mm. GOLD
Velocity	420 m/s
Case&Box	10/200 pcs.

Robusto 12cal. 12 Pellet



Product Code	RBS1212P
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Bior
Lead Shot Size	7,8 mm.
Velocity	420 m/s
Case&Box	10/200 pcs.

Robusto 12cal. 27 Pellet



Product Code	RBS1227P
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	38 g.
Wad	Bior
Lead Shot Size	6,2 mm.
Velocity	415 m/s
Case&Box	10/200 pcs.

Robusto 12cal. 27 Pellet

Gold



Product Code	RBS1227PG
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	38 g.
Wad	Bior
Lead Shot Size	6,2mm. GOLD
Velocity	415 m/s
Case&Box	10/200 pcs.

Robusto 16cal. 9 Pellet



Product Code	RBS169P
Caliber	16 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	25 g.
Wad	Bior
Lead Shot Size	7,8 mm.
Velocity	420 m/s
Case&Box	10/200 pcs.

Robusto 20cal. 9 Pellet

Gold



Product Code	RBS209PG
Caliber	20 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	22 g.
Wad	Bior
Lead Shot Size	7,4 mm.
Velocity	420 m/s
Case&Box	10/200 pcs.

Sovrano 12cal. Slug



Product Code	SVR12S
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	32 g.
Wad	Plastic
Lead Shot Size	Standart
Velocity	440 m/s
Case&Box	10/200 pcs.

Robusto 16cal. 9 Pellet

Gold



Product Code	RBS169PG
Caliber	16 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	25 g.
Wad	Bior
Lead Shot Size	7,8 mm.
Velocity	420 m/s
Case&Box	10/200 pcs.

Robusto 20cal. 9 Pellet



Product Code	RBS209P
Caliber	20 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	22 g.
Wad	Bior
Lead Shot Size	7,4 mm.
Velocity	420 m/s
Case&Box	10/200 pcs.

Sovrano 12cal. Slug

Gold



Product Code	SVR12SG
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	33 g.
Wad	Plastic
Lead Shot Size	Standart Gold
Velocity	440 m/s
Case&Box	10/200 pcs.

Sovrano 12cal. Speedy Slug



Product Code	SVR12SS
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	32 g.
Wad	Plastic
Lead Shot Size	Gualandi Model
Velocity	450 m/s
Case&Box	10/200 pcs.

Sovrano 12cal.

Double Action



Product Code	SVR12DA
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	24 g.
Wad	Plastic
Lead Shot Size	14mm. x 2
Velocity	430 m/s
Case&Box	10/200 pcs.

Sovrano 12cal.

Shock Star



Product Code	SVR12SHK
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Bior
Lead Shot Size	18 mm.
Velocity	450 m/s
Case&Box	10/200 pcs.

Sovrano 12cal.

Triple Action



Product Code	SVR12TA
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	30 g.
Wad	Plastic
Lead Shot Size	11mm. x 3
Velocity	430 m/s
Case&Box	10/200 pcs.

Sovrano 12cal.

Turbo Action



Product Code	SVR12TRB
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	33 g.
Wad	Bior
Lead Shot Size	Turbo Model
Velocity	440 m/s
Case&Box	10/200 pcs.

Sovrano 16cal. Slug



Product Code	SVR16S
Caliber	16 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	25 g.
Wad	Plastic
Lead Shot Size	Standart
Velocity	440 m/s
Case&Box	10/200 pcs.

Sovrano 20cal. Slug



Product Code	SVR20S
Caliber	20 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	22 g.
Wad	Plastic
Lead Shot Size	Standart
Velocity	440 m/s
Case&Box	10/200 pcs.

Sovrano 16cal. Slug

Gold



Product Code	SVR16SG
Caliber	16 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	26 g.
Wad	Plastic
Lead Shot Size	Standart Gold
Velocity	440 m/s
Case&Box	Kutu&Koli 10/200 pcs.

Sovrano 36cal. Slug



Product Code	SVR36S
Caliber	36 mm.
Brass Height	16 mm.
Case Height	63 mm.
Gram	7,5 g.
Wad	Plastic
Lead Shot Size	Standart
Velocity	460 m/s
Case&Box	25/500 pcs.

Ligero 16cal. 28g. & 30g.



Product Code	LGR1628&1630
Caliber	16 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	28 g. & 30 g.
Wad	Plastic
Lead Shot Size	05-04-...-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Ligero 20cal. 25g. & 28g.



Product Code	LGR2025&2028
Caliber	20 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	25 g. & 28 g.
Wad	Plastic
Lead Shot Size	1-2-3-...-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Ligero 28cal. 22g.



Product Code	LGR2822
Caliber	28 mm.
Brass Height	08 mm.
Case Height	65 mm.
Gram	22 g.
Wad	Plastic
Lead Shot Size	3-4-5...-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Ligero 36cal. 12g.



Product Code	LGR3612
Caliber	36 mm.
Brass Height	16 mm.
Case Height	63 mm.
Gram	12 g.
Wad	Bior
Lead Shot Size	3-4-5...-10-11
Velocity	400 m/s
Case&Box	25/500 pcs.

Ligero 20cal. 25 & 28g.
Bior



Product Code	LGR2028B
Caliber	20 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	25 g. & 28 g.
Wad	Bior
Lead Shot Size	1-2-3-...-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.

Ligero 28cal. 16g. Sporting YAF1 Trap



Product Code	LGR2816
Caliber	28 mm.
Brass Height	08 mm.
Case Height	65 mm.
Gram	16 g.
Wad	Plastic
Lead Shot Size	3-4-5...-10-11
Velocity	400 m/s
Case&Box	25/250 pcs.



Product Code	SPRF1TRP
Caliber	12 mm.
Brass Height	25 mm.
Case Height	70 mm.
Gram	24 g.
Wad	Plastic
Lead Shot Size	7,5
Velocity	420 m/s
Case&Box	25/250 pcs.

Sporting Super Trap



Product Code	SPRSPTRP
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	24 g.
Wad	Plastic
Lead Shot Size	7,5
Velocity	400 m/s
Case&Box	25/250 pcs.

Sporting Super Skeet



Product Code	SPRSPSKT
Caliber	12 mm.
Brass Height	12 mm.
Case Height	70 mm.
Gram	24 g.
Wad	Plastic
Lead Shot Size	9,5
Velocity	400 m/s
Case&Box	25/250 pcs.

Premium 12cal. 32g.

Redleg



Product Code	BGT1232R
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	32 g.
Wad	Plastic
Lead Shot Size	6
Velocity	430 m/s
Case&Box	10/200 pcs.

Premium 12cal. 32g.

Mandarin



Product Code	BGT1232M
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	32 g.
Wad	Plastic
Lead Shot Size	6
Velocity	430 m/s
Case&Box	10/200 pcs.

Premium 12cal. 34g.

Lepus



Product Code	BGT1234L
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Plastic
Lead Shot Size	3 - 4
Velocity	430 m/s
Case&Box	10/200 pcs.

Premium 12cal. 34g.

Redleg



Product Code	BGT1234R
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Plastic
Lead Shot Size	6
Velocity	430 m/s
Case&Box	10/200 pcs.

Premium 12cal. 34g.

Lepus



Product Code	BGT1234L
Caliber	12 mm.
Brass Height	16 mm.
Case Height	70 mm.
Gram	34 g.
Wad	Plastic
Lead Shot Size	3 - 4
Velocity	430 m/s
Case&Box	10/200 pcs.

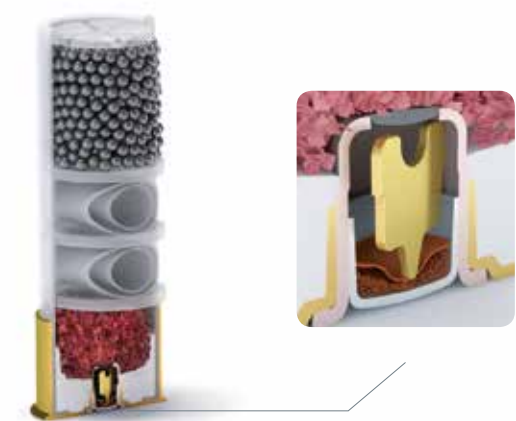
LEPUS
MANDARIN
REDLEG



HUNTING CARTRIDGES

	Product Series	Caliber	Brass Height	Case Height	Gram	Wad	Lead Shot Size	Velocity
RAPIDO	Rapido 12cal. 28g.	12	12mm	70mm	28g	Plastic	05-04-.....-10-11	400 m/s
	Rapido 12cal. 30g.	12	12mm	70mm	30g	Plastic	05-04-.....-10-11	400 m/s
	Rapido 12cal. 32g.	12	12mm	70mm	32g	Plastic	05-04-.....-10-11	400 m/s
	Rapido 12cal. 34g.	12	12mm	70mm	34g	Plastic	05-04-.....-10-11	400 m/s
	Rapido 12cal. 32g Dispersante	12	12mm	70mm	34g	Dispersante	04-05-10-11	400 m/s
	Rapido 12cal. 36g.	12	16mm	70mm	36g	Plastic	05-04-.....-10-11	400 m/s
	Rapido 12cal. Test Cartridges	12	16mm	70mm	32g & 34g	Plastic	01-02-.....-10-11	-
	Rapido 12cal. Sound Cartridges	12	12mm	70mm	-	Plastic	-	-
	Rapido 12cal. 40g. Super Shot	12	25mm	70mm	40g	Plastic	05-04-.....-10-11	400 m/s
ALAMO	Rapido 12cal. 50g. Magnum	12	25mm	76mm	50g	Plastic	05-04-.....-10-11	400 m/s
	z 12cal. 30g.	12	12mm	70mm	30g	Felt	05-04-.....-10-11	400 m/s
	Alamo 12cal. 31g.	12	12mm	70mm	31g	Felt	05-04-.....-10-11	400 m/s
	Alamo 12cal. 32g.	12	12mm	70mm	32g	Felt	05-04-.....-10-11	400 m/s
FORTE	Alamo 12cal. 33g.	12	12mm	70mm	33g	Felt	05-04-.....-10-11	400 m/s
	Alamo 12cal. 34g.	12	12mm	70mm	34g	Felt	05-04-.....-10-11	400 m/s
	Forte 12cal. 28g.	12	12mm	70mm	28g	Bior	05-04-.....-10-11	400 m/s
	Forte 12cal. 30g.	12	12mm	70mm	30g	Bior	05-04-.....-10-11	400 m/s
	Forte 12cal. 31g.	12	12mm	70mm	31g	Bior	05-04-.....-10-11	400 m/s
	Forte 12cal. 33g.	12	12mm	70mm	33g	Bior	05-04-.....-10-11	400 m/s

We offer traditional shot cartridges with felt wads to our esteemed customers and all hunters.



HUNTING CARTRIDGES

	Product Series	Caliber	Brass Height	Case Height	Gram	Wad	Lead Shot Size	Velocity
ROBUSTO	Robusto 12cal. 9 Pellet	12	16mm	70mm	34g	Bior	8,6mm	420 m/s
	Robusto 12cal. 9 Pellet GOLD	12	16mm	70mm	34g	Bior	8,6mm GOLD	420 m/s
	Robusto 12cal. 12 Pellet	12	16mm	70mm	34g	Bior	7,8mm	420 m/s
	Robusto 12cal. 12 Pellet GOLD	12	16mm	70mm	34g	Bior	7,8mm GOLD	420 m/s
	Robusto 12cal. 27 Pellet	12	16mm	70mm	38g	Bior	6,2mm	415 m/s
	Robusto 12cal. 27 Pellet GOLD	12	16mm	70mm	38g	Bior	6,2mm GOLD	415 m/s
	Robusto 16cal. 9 Pellet	12	16mm	70mm	25g	Bior	7,8mm	420m/s
	Robusto 16cal. 9 Pellet GOLD	12	16mm	70mm	25g	Bior	7,8mm GOLD	420m/s
	Robusto 20cal. 9 Pellet	12	16mm	70mm	22g	Bior	7,4mm	420m/s
	Robusto 20cal. 9 Pellet GOLD	12	16mm	70mm	22g	Bior	7,4mm GOLD	420m/s

Various pellet sizes and quantities for miscellaneous calibers.



HUNTING CARTRIDGES

SOVRANO

Product Series	Caliber	Brass Height	Case Height	Gram	Wad	Lead Shot Size	Velocity
Sovrano 12cal. Slug	12	16mm	70mm	32g	Plastic	Standart	440m/s
Sovrano 12cal. Slug GOLD	12	16mm	70mm	33g	Plastic	Standart GOLD	440m/s
Sovrano 12cal. Speedy Slug	12	16mm	70mm	32g	Plastic	Gualandi Model	450m/s
Sovrano 12cal. Double Action	12	16mm	70mm	24g	Plastic	14mm x 2	430m/s
Sovrano 12cal. Tribble Action	12	16mm	70mm	30g	Plastic	11mm x 3	430m/s
Sovrano 12cal. Shock Star	12	16mm	70mm	34g	Bior	18mm	450m/s
Sovrano 12cal. Turbo Action	12	16mm	70mm	33g	Bior	Turbo Model	440m/s
Sovrano 16cal. Slug	12	16mm	70mm	25g	Bior	Standart	440m/s
Sovrano 16cal. Slug GOLD	12	16mm	70mm	26g	Bior	Standart GOLD	440m/s
Sovrano 20cal. Slug	12	16mm	70mm	22g	Plastic	Standart	440m/s
Sovrano 36cal. Slug	12	16mm	63mm	7,5g	Plastic	Standart	460m/s

Hunting cartridges filled with slugs with special design. Hunters will live hunting satisfaction with our slug products with miscellaneous calibers.



HUNTING CARTRIDGES

LIGERO

Product Series	Caliber	Brass Height	Case Height	Gram	Wad	Lead Shot Size	Velocity
Ligero 16cal. 28g. & 30g.	16	16mm	70mm	28g & 30g	Plastic	05-04-....-10-11	400m/s
Ligero 20cal. 25g. & 28g.	20	16mm	70mm	25g & 28g	Plastic	01-02-03-....-10-11	400m/s
Ligero 20cal. 25g. & 28g. Bior	20	16mm	70mm	25g & 28g	Bior	01-02-03-....-10-11	400m/s
Ligero 28cal. 16g.	28	08mm	65mm	16g	Plastic	03-04-05-....-10-11	400m/s
Ligero 28cal. 22g.	28	08mm	65mm	22g	Plastic	03-04-05-....-10-11	400m/s
Ligero 36cal. 12g.	36	16mm	63mm	12g	Plastic	03-04-05-....-10-11	400m/s

High performance with different pellet sizes and calibers for small hunts.



SARSILMAZ®