XPLOCHEM
INDUSTRIES

PRODUCT CATALOG

XPLOCHEM INDUSTRIES

PACKAGED EXPLOSIVES

SLURRY LARGE DIA

Slurry Explosives are manufactured with strict in - process quality control measures, The water based consistent pet explosives provides maximum safety, stability and thermal resistance. These explosives are safe in handling, economical and superior performance for water resistance.

APPLICATIONS

As Cap Sensitive booster charge in opencast mines and quarriers. Excellent General-purpose cord for reliable blast initiation under virtually all conditions in mining &construction carrying.

Product	Density GR/CC	Strength Aws AL/GR	V.O.D M/sec	Dia MM	UN NO : 0065	Water resistance	Sensitivity
Shakti Blast	1.20±0.05	1100	4000±500	83,125,200	1000	Excellent	Cap Sensitivity
Shakti Power Blast	1.20±0.05	1100	4750±500	83,125,200	1500	Excellent	Cap Sensitivity
Shakti Gel	1.18±0.05	1000	4000±400	83,125,200	1500	Excellent	Non-Cap Sensitivity
Shakti Column SS	1.15±0.05	950	4000±400	83,125,200	500	Excellent	Non-Cap Sensitivity

Indian Explosive Act : Class - 2
Un Classification : Class 1.1 & 1.5D, UN No. 0241

**** The above products are our standard product manufactured for the domestic market. However, we can customize as per the requirements of the customers.**

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PACKAGED EXPLOSIVES

EMULSION SMALL DIAMETER CARTRIDGE

Emulsion Explosives are intimate and homogeneous mixtures of Oxidizers and Fuels. Emulsion Explosives (small diameter non permitted cartridges) are the new generation of explosives characterized with hiph VOD and optimum strength.

APPLICATIONS

To use as small dia, blasting operations, oil exploration / under water blasting, for General purpose blasting in construction work, tunneling, well sinking.

Product	Density G/CC	Strength AWS CALIGR	V.O.D M/sec	Air Gap Sensitivity	Shell Life	Water resistance	Sensitivity
Super Shakti Dyne E-90	1.20±0.05	1100	4200±200	<50mm	6 months	25 32 40 50	Sensitive to no.6 Detonator and cord
Pipe Wall Thickness	1.20±0.05	1050	3800±200	<50mm		25 32 40 50	Sensitive to no.6 Detonator and cord

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FUSE

DETONATING FUSE

Detonating Fuses are made of PETN as inner explosive material subsequently covered with two layers of superior quality of yarn and further coated with high strength PVC material for safe handling and water resistance. High quality process technology and precision machineries ensures higher reliability and Superior performance under all conditions. These Detonating Fuses are meant for blasting operations of granite quarries, open cast mines, underground metal mines, underwater blasting etc.

Characteristics	S-CORD	S-CORD I	S-CORD II	S-CORD III	S-CORD 20	S-CORD 40
Coreload (gm/meter)	5	7.5	10	400	40	40
Fuse dia (mm)	35-37	41-43	4.5-4.8	4.9-5.1	6.0-7.0	7.5-8.5
Weight of DF (g/ml)	13-15	18-20	20-22	22-24	38-42	70-80
Color of PVC coating	As Required	As Required	As Required	As Required	As Required	As Required
VOD (m/sec)	5700+300	6300-300	6500-300	6800-200	6800-200	6900-200
Breaking load (kg)	40-45	65-70	70-75	85-90	85-90	95-95
Packing (Ispool x mtr)	4 x 500	4 x 375	4 x 375	4 x 250	4 x 150	2 x 75
Side brisance (mm)	7	10	10	12	15	15
Water Absorbance (em)	0.5	0.5	0.5	0.5	1	1

Indian Explosive Act : Class - ó, Division - 2
Un Classification : Class - 1.D, UN No. 0065

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DETONATOR

NON-ELECTRIC DETONATOR

The most common shock tube is generally composed of a small diameter plastic tube which has a light dusting of a combustible, explosive mixture adhered to the inside surface along its length. The mixture most used as the energetic material is an admixture of PETN and aluminum. It consists of a plastic tube carrying a very small quantity of reactive material on its inner surface. A No.8 strength instantaneous or delay detonator is crimped to one end of the plastic tube. The unique design of bunch connector facilities interfacing with a detonator.

Characteristics	Super Det TLD	Super Det DTH	Super Duel Det
Detonator Strength	No. 8	No. 8	No. 8
Delay Timings (in Ms)	1725426777100170	250, 350, 450	Any Combination of TLD & DTH
Length of Shock Tube	2 meter to 25 meters	3 meter to 25 meters	3 meter to 25 meters
VOD	2000± 100 m/sec	2000± 100 m/sec	2000± 100 m/sec
Water Resistence	Excellent	Excellent	Excellent
Tensile Strength	20 kgs	20 kgs	20 kgs

Indian Explosive Act : Class - ó, Division - 3
Un Classification : Class - 1.1B, UN No. 0360

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DETONATOR

ELECTRIC DETONATOR

The detonators consist of aluminum shell filed with desired dosage of PETN as base charge and mixer of Nickle Hydrazine Nitrate and aluminum powder as priming charge.

APPLICATIONS

Electric detonator are used for blasting in queries, opencast mining and non-gassy under ground mining . The EDs are connected with detonating fuse and explosive in series and connected with exploder for firing.

Characteristics	Super OD	Super ED	Super MSDD	Super HSDD
Construction	Aluminium Shell	Aluminium Shell	Aluminium Shell	
Strength	No.6/8	No.6/8	NO.8	NO.8
Ignition/Initiation	Safety Fuse	Electric	Electric	Electric
Delay in travel	Plain	Instantaneous	25-75 ms: 7	250-500 100
Shell Length (mm)	37-40	42-43	57-77	57-77
Delay Nos.			0-10	0-10
No Fire Current		180 ma for 5 minutes	180 ma for 5 minutes	180 ma for 5 minutes
Series fire Current (Min.)		1.2 A for 4 ms	1.2 A for 4 ms	1.2 A for 4 ms
Fuse Head Resistance		1.4-2.0 ohms	1.4-2.0 ohms	1.4-2.0 ohms
Lead Wire Resistance		0.6 Ohm/m	0.6 Ohm/m	0.6 Ohm/m
Wire Colour		As Required	As Required	As Required
Specific Length available on request		1.5/1.	3/5mm	3/5mm

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FUSE

PETN

Penta Erythritol Tetra Nitrate generally known as PETN is a standard explosive compound obtained by nitration of Penta Erythritol with concentrated nitric Acid . It is in the from of white crystalline powder insoluble in water and highly soluble in Acetone. It finds its use in the manufacture of Detonating cords as main core material, In the pentolite Booster as a sensitizing charge, in the Detonating as a base charge etc.

APPLICATIONS

Mainly used for Military purposes, Detonator, Detonating fuse and in Pentolites

Characteristics	Super Cord Relay (By-directional Super Cord Relays)
Melting Point	139°c to 1420°c
Nitrogen Content	17.5 % Minimum
Stability by able Heat Test	76.6°c for 10 minutes minimum
Flow Rate (for 500 gram)	200-250 Seconds (Smm Bore Funnel)
Bulk Density (gram/ CC)	0.90±.05
Moisture (for Transportation)	25%
Moisture (For Use)	0.10%
Insoluble in Acetone	0.20%
Acidity as HNO3	0.01%
Alkanitv as Na 2 CO3	0.01%
Ash Content	0.05%
Sieve Size(36 BSS)	70-80%
Crystal Shape	Rhombic
HS Code	3602.00.900

Indian Explosive Act : Class - 3, Division – 2
Un Classification : Class - 1.1 D, UN No. 0151

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FUSE

SUPER CORD RELAY

Super Cord Relay is a non-electric surface delay to provide delay between the holes and rows in Detonating Fuse initiated blast patterns. The super Cord Relay has two holes on either end of the component to insert and tie the Detonating fuse. The Super Cord Relays are bi directional and can be used in the blast for safe and reliable multi-directional blast designs

Characteristics	Super Cord Relay (By-directional Super Cord Relays)
Nominal Delay Time	17MS / 25MS / 47MS / 67 MS
Colour of component	Yellow / Red / White / Green
Compatibility	8gms / 10 gms / mtr Detonation Card
Packing	400 Nos / Case
Gross Weight	15 Kgs

Indian Explosive Act : Class - 6, Division – 3
UN Classification : Class - 1.1 B, UN No. 0029

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DETONATOR

SUPERPOWER CAST BOOSTER

Penta Boosters are made of high explosives PETN and TNT composition cast in to a plastic shell. They can be initiation by detonators or detonating cord top provide reliable initiation of pumped augured and packaged explosives. Boosters make efficient primers and boosters that detonate at a very high velocity and temperature. These qualities, together with high density produce preta detonation pressure. Pentolite boosters can be stored for long periods of time, as they contain no liquid ingredients and can be operated easily without use of prickers. They are equipped with two holes for easy initiation with detonating cord or detonators. They do not contain nitro - glycerin or other headache causing ingredients.

Characteristics	Values
Unit Weight (grams)	100, 200 & 250
Density	1.55 ± 0.05 gm/CC
Tensile Strength	7800 m/sec ± 200
Shock Energy	237 calories/gram
Detonation Pressure	240 Kilo bars
Water Resistance	Excellent

Indian Explosive Act : Class - 3, Division - 2
Un Classification : Class - 1.1D, UN No. 0042

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