



ARAVALI EXPLOSIVES AND CHEMICALS

AN ISO 9001:2015 CERTIFIED COMPANY

ARAVALI EXPLOSIVES AND CHEMICALS

ARAVALI EXPLOSIVES AND CHEMICALS is an ISO 9001:2015 certified Company engaged in manufacturing, distribution and supply of Emulsion Explosives, Slurry Explosives, Detonating Fuse and Cast Booster.

Established in the year 1999, ARAVALI EXPLOSIVES AND CHEMICALS possesses a state of the art plant located in Maharashtra. We are equipped with an expansive R&D department, which strives to attain innovational development in all spheres of work. Serving various clients across the India, the company follows strict International quality standards.

Our product range includes Detonating Fuse, Slurry & Emulsion Explosives, Cast Booster, True Blast Slurry and other Explosive Products. A timely delivery schedule is followed by all the members of the workforce of ARAVALI EXPLOSIVES AND CHEMICALS. We specialise in providing customized solution and boast of having a spacious warehousing & packaging facility. Our clientele comprises of companies like DMRC, CIL, HP- PWD, Sikkim Power Development Corporation Ltd, NHPC, RDD, PMGSY, AP PWD etc. They are managed by our certified Technicians and Trained Professionals.



MINES

WELLS

OIL AND NATURAL GAS

GEOLOGICAL SURVEY

UNDERGROUND TUNNELS

VERTICALS

ARAVALI NEW GEL -90

Aravali New Gel- 90 packaged Emulsion Explosive is a robust, High strength Cap Sensitive, detonator sensitive explosive. The explosive is off-white in color with uniform putty-like Consistency. Products are sensitized through chemicals Gassing/micro-spheres/combo of both. ARAVALI NEW –GEL 90 is a water resistant packaged Explosive designed for priming applications and as a Colum explosive in surface and underground mining and general blasting. The high detonation velocity and the robust nature of Aravali New Gel -90 make it an ideal primer for the initiation of ANFO Columns.



TECHNICAL SPECIFICATIONS

Diameter mm	Nominal length mm	Nominal Mass gm	Cartridge/ Box
25	200	125	200

Other diameter/ gram combination can be offered on request.

Other diameter/Grammage combination can be offered on request.

Nominal Density 1.15 - 0.05 g/cc

Relative weight strength 118 %

Relative Bulk Strength to ANFO @ 0.85 g/cc 166 %

Minimum Velocity of Detonation 3500 mtr./sec.

TRUE BLAST

Aravali TRUE BLAST is a cap sensitive Packaged slurry explosive, suitable for use in many Types of blasting applications using small, medium and large diameter holes and representing latest development in slurry explosives technology. Its high strength and high velocity of detonation ensures good fragmentation in hard strata and gives excellent blast results in quarrying, road cutting, canal excavation and secondary blasting and civil Construction, Superior rigid get ensures good Handling. Product is relatively insensitive to accidental Initiation due to impact, friction and fire. Hence it is very safe during handling, transportation, storage and usage.



TECHNICAL SPECIFICATIONS

Diameter mm	Nominal length mm	Nominal Mass gm	Cartridge per Box.
83	460	2780	9

Other diameter/ gram combination can be offered on request.

Nominal density 1.15 - 1.20 g/cc

Relative Weight Strength 85 - 130 %

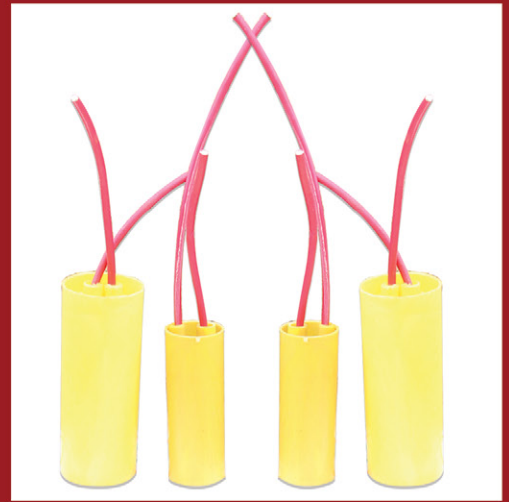
Relative Bulk Strength 100 - 184 %

* To ANFO @ 0.85 g/cc

Minimum velocity of Detonation 3500 m/sec.

CAST BOOSTER

Cast Booster is made of high explosive composition case into a cardboard/ plastic shell. Two longitudinal Tunnels in the booster accommodate either a Detonator or a Detonating cord. One tunnel has straight Walls while the other is stepped at the top of the Booster to provide a stop for the detonator and the detonating Cord. Signal tube or lead wires are protected from Damage by a recessed wall at the base of the booster. Cast Boosters have a high density, and a high velocity of detonation (VOD) to maximize performance. Cast Boosters are initiated by detonators or by Detonating cords.



TECHNICAL SPECIFICATIONS

Size	Diameter mm	Length mm
100g	34	95
150g	40	115
200g	42.5	115
240g	46	115
500g	62	115

Note:
Boosters can be supplied with or without tunnel other sizes can be made available on request.

Shell color : Yellow

Nominal density : 1.55 + 0.05 g/cc

Velocity of detonation : 7500 + 500 m/sec,

Water resistance : Excellent

Oil resistance : Excellent

Nominal detonation Pressure 22.0 GPs

ARAVALI NEW GEL PRIMER

Aravali New Gel – 90 Primer Packaged Emulsion Explosive is a robust, High strength detonator sensitive explosive. The explosive is off-white in color with uniform putty like Consistency. Products are sensitized through chemicals Gassing/micro-spheres/comboination of both. ARAVALI NEW –GEL 90 PRIMER is a water resistant Packaged Explosive designed for priming applications. It is also used as a Colum explosive in surface and underground Mining and general blasting. The high detonation Velocity and the robust nature of Aravali New – Gel -90 Primer makes it an ideal primer for the initiation of ANFO Columns.



TECHNICAL SPECIFICATIONS

Diameter mm	Nominal length mm	Nominal Mass gm	Cartridge/ Box
83	460	2.78	9

Other diameter/ gram combination can be offered on request.

Nominal Density 1.20 + 0.05 g/cc

Relative weight strength 118 %

Relative Bulk Strength 166 %

*to ANFO @ 0.85 g/cc

Minimum Velocity of Detonation 3500 mtr./sec.

SHOCK TUBE DETONATORS (NONEL DETONATOR)

Shock tube detonators are non-electric explosive initiators. A hollow plastic tube of small diameter and of any desired length with a small amount of explosive powder adhered on its inner-surface, the same is affixed with a delay detonator at either one or both of its ends. The explosive powder in the shock tubes generates a shock wave which propagates through the length of the tube and initiates the detonation on the other end. The outer surface of the tube remains unaffected by the travelling shockwaves. Shock tube detonators are less sensitive to static electricity and radio frequency energy and are thus, a safer alternative to electric detonators.

1. DTHD (DOWN THE HOLE DELAY)

DTHD is used for true bottom initiation of the borehole in blasting. DTHD can be used in combination with Surface Trunk line Delay Detonators (STLD) and it provides un-limited delay period and sequence to conduct large scale blasts. DTHD can be used with detonating cord and cord relay also. DTHD can be used for multi deck initiation in boreholes to reduce the ground vibrations in sensitive and inhabited area and also in controlled blasting operations.



2. STLD (SURFACE TRUNK LINE DELAY)

STLD is used for surface initiation in blasting to provide the necessary delay between the holes. A Delay Detonators of no.6 strength is housed in a suitable connector on one end and the other end of the tube is sealed. The Connector has the provision to connect 6 Shock Tubes for initiation. The connectors are coded on the basis of the colors to indicate the delay timing. STLD is used in combination with Down the Hole Delay detonators (DTHD).



TECHNICAL SPECIFICATIONS

S. No.	Parameters	Technical specification
1.	Strength	Minimum No. 8
2.	Type	Non Electric
3.	Interval	Depending on the numbers (1-10) (maximum of 25 minutes)
4.	Tube Length	3 m and 5 m (in equal ratio of total quantity)
5.	Explosive	Minimum 1 gram PETN/RDX or Equivalent
6.	Diameter	7.5 ± 1mm
7.	Feature	Water Resistant; No primary Explosive
8.	Operating temperature	-25° C to 70° C
9.	Shelf life	Minimum 2 years
10.	Standard	ISO or Equivalent

Others features are as per standard classifications.

PETN

PETN has a physical appearance of white crystalline structure in color. It is free from dust & visible impurities. Its shape is hexagonal crystals and free from needle shape. The Aravali PETN comes in a standard polyethylene non-static boxes packaging as per Explosive Rule 2008.



TECHNICAL SPECIFICATIONS

BULK DENSITY	: 0.85 gm/cc to 1.00gm/cc.	GRIT	: Nil
MELTING POINT	: 139°C to 142°C	FLOW TIME FOR 500 GM THROUGH 5MM BORE (BIAZZ FUNNEL)	: 260 seconds maximum
ABEL HEAT TEST AT 80°C	: More than 20 minutes	MOISTURE (FOR STORAGE)	: 25%
ACIDITY AS HNO₂	: 0.005% (maximum)		
ALKALINITY AS NA₂CO₃	: 0.005% (maximum)		
NITROGEN CONTENT	: 17.5% (minimum)		
VARIOUS IN SIEVE SPECTRUM	: 18 B.S.S.-100%; 36 B.S.S. - 50%; 52 B.S.S.- 24% to 38%; 72 B.S.S.-10% to 15%; 100 B.S.S.-5%		
INSOLUBLE IN ACETONE	: 0.2 % (maximum)		
ASH CONTENT	: 0.05 % (maximum)		

TRANSPORTATION SERVICES

ARAVALI EXPLOSIVES AND CHEMICALS, through its various sister concerns also specialises in providing transportation services for explosives and related products. We possess of a fleet of explosive vans and explosive trucks that are apt for safely transporting dangerous explosives and chemicals across territories. Our company follows proper guidelines of PESO while providing transportation services to customers.





OUR FACTORY INDOOR CELEBRATIONS

CUSTOMERS
WE **TRUST** QUALITY
US

OUR CLIENTS



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PWD



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LTD.



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