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Primadet Non-electric Delay Detonators

Dual Stoper (EZ Stoper / Dual Det)

Product Description

The PRIMADET DUAL STOPER was primarily developed for simplicity, a reduction in the number of detonators required, improving the environmental impact (fewer detonators) and to save on cost. The PRIMADET DUAL STOPER is a 'combination' of two PRIMADET units, the EZ STOPER and the DUAL DET. Both units consist of a length of orange shock tube. The EZ STOPER with a surface detonator attached to one end and a high strength in-hole detonator on the other. The surface detonator is inside a colour-coded plastic connector block to facilitate easy connections of up to 3 shock tube leads. The DUAL DET has two high strength in-hole detonators, allowing one unit to fire two shot holes. Both units have easy-to-read tags and labels that prominently display the length and nominal firing time.

The DUAL STOPER provides a fast, simple and cost-effective hook-up while allowing an unlimited number of holes to be shot with inherent sequential timing. The unbelievably flexible and versatile unit combination can also be used in combination with other PRIMADET units, such as the EZ PLATINUM TRUNKLINE, to satisfy simple and complex blast design requirements whilst minimizing inventory of initiation system components and cost.

The DUAL STOPER non-electric blast initiation system is precise and reliable for sequential blasting in numerous applications, including underground stoping, bord & pillar mining and in-stope tunnelling applications.

Application and Recommendations

- **ALWAYS** protect the plastic EZ connector block and all shock tube leads from impact or damage during the loading and tie-in. The EZ connector contains a detonator and is subject to detonation caused by abuse such as impact. Shock tube which has been cut, ruptured or damaged may cause misfires
- **ALWAYS** be sure that the shock tube(s) are securely inserted, one at a time, into the EZ connector block. The head of the connector block should rise to accept the tube, then return to a closed position with an audible click
- **ALWAYS** ensure that the individual shock tubes remain aligned side by side in the EZ connector channel and do not cross over one another during insertion
- **ALWAYS** connect EZ STOPER units one to another in the same sequence as the shot-holes are to detonate
- **ALWAYS** connect the DUAL DET securely into the EZ connector to ensure signal transfer and continuation
- **NEVER** use the DUAL STOPER system with detonating cord. The low strength surface detonator will not initiate detonating cord
- **NEVER** attempt to disassemble the delay detonator from the plastic EZ connector or use the detonator without the connector
- **NEVER** place more than 3 shock tube leads into the plastic EZ connector block. Misfires may result
- **NEVER** pull, stretch, kink or put tension on shock tube such that the tube could break
- **NEVER** drive any equipment over shock tube or out-of-hole connectors. Whenever charging or connecting from a manoeuvrable basket, platform or boom, always make sure that no shock tubes or EZ STOPER out-of-hole delays are or can become entangled
- **NEVER** connect EZ STOPER delays together until all holes have been primed and loaded and the blast site has been cleared of unnecessary personnel and equipment

Packaging Information

Additional product lengths and packaging densities are available on request. Please contact your representative for any additional information that may be required.

Dual Stoper (DS)						
Case Dimensions	605mm X 315mm X 460mm					
EZ Stoper length	Units	Dual Det length	Units	Total Units / case	Net Weight*	Gross Weight*
2.4	220	3.6	200	420	25.078	26.356
2.4	150	4.2	150	300	14.000	15.000
2.4	125	5.4	125	250	14.000	15.000

*Packaging weights may vary

DS = The EZ STOPER and DUAL DET are specifically pre-packed for convenience of use

NOTE: For inventory control and different length combinations, the EZ STOPER and DUAL DET can be ordered separately (brochures are available for reference).

Colour Codes and Delay Combinations

Connector block colours change according to delay or delay combinations

EZ Stoper	
Delay Combinations (ms)	Block colour
3800 / 200	White
4000 / 400	Green

Recommended Storage and Shelf Life

Storage and Shelf Life	
Recommended Storage	6 months (well ventilated and dry)
Shelf Life	3 years

Transport and Handling

Transport	
UN Classification	1.1B
UN Number	0360
ZAX Number	355A

The PRIMADET DUAL STOPER must be transported, stored, handled and used in accordance with local and international laws and regulations
Explosive inventory should be rotated. First in, first out principles must apply

FOR MORE IN-DEPTH KNOWLEDGE OF THE PRODUCT AND ITS APPLICATIONS, PLEASE REFER TO THE SASOL DYNO NOBEL BOOK 'PRODUCT SAFETY, THE LAW AND EXPLOSIVES'.

warning and disclaimer

All products and equipment manufactured and supplied by Sasol Dyno Nobel shall be used, handled, stored or transported according to the guidelines laid down by the relevant applicable legislation in that country. Explosive accessories should be secured in an explosive magazine. All or any part of the explosive accessories is dangerous and can cause injury or death. If you find any of these items, do not touch them. Instead, immediately report their location and description to the police. To the extent provided for in terms of section 61 of the Consumer Protection Act, 2008, Sasol Dyno Nobel shall not be liable for any damage, whatever its nature, including incidental, consequential and indirect damage caused to buyers or third parties, directly or indirectly arising from or relating to the supply, use or storage of the products and equipment arising after delivery unless caused by Sasol Dyno Nobel's willful misconduct or gross negligence.

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Primadet Non-electric Delay Detonators

Dual Stoper (EZ Platinum Trunkline / Dual Det)

Product Description

The PRIMADET DUAL STOPER was primarily developed for simplicity, a reduction in the number of detonators required, improving the environmental impact (fewer detonators) and to save on cost. The PRIMADET DUAL STOPER is a 'combination' of two PRIMADET units, the EZ PLATINUM TRUNKLINE and the DUAL DET. Both units consist of a length of orange shock tube. The EZ PLATINUM TRUNKLINE has no high strength in-hole detonator. The EZ PLATINUM TRUNKLINE only has a surface detonator inside a colour-coded plastic connector block to facilitate easy connections of up to 3 shock tube leads. The opposite end has no detonator, but an ultrasonic seal on the shocktube lead with a colour-coded plastic bead. The EZ PLATINUM TRUNKLINE is used as a starter unit and as a hook-up unit to transfer the signal sequentially, to the DUAL DET / s. The DUAL DET has two high strength in-hole detonators, allowing one unit to fire two shot holes. Both units have easy-to-read tags and labels that prominently display the length and nominal firing time.

The DUAL STOPER provides a fast, simple and cost-effective hook-up while allowing an unlimited number of holes to be shot with inherent sequential timing. The DUAL STOPER will satisfy simple blast design requirements whilst minimizing inventory of initiation system components and cost.

The DUAL STOPER non-electric blast initiation system is precise and reliable for sequential blasting in numerous applications, including underground stoping, bord & pillar mining and in-stope tunnelling applications.

Application and Recommendations

- **ALWAYS** protect the plastic EZ connector block and all shock tube leads from impact or damage during the loading and tie-in. The EZ connector contains a detonator and is subject to detonation caused by abuse such as impact. Shock tube which has been cut, ruptured or damaged may cause misfires
- **ALWAYS** be sure that the shock tube(s) are securely inserted, one at a time, into the EZ connector block. The head of the connector block should rise to accept the tube, then return to a closed position with an audible click
- **ALWAYS** ensure that the individual shock tubes remain aligned side by side in the EZ connector channel and do not cross over one another during insertion
- **ALWAYS** connect EZ PLATINUM TRUNKLINE units one to another in the same sequence as the shot-holes are to detonate
- **ALWAYS** connect the DUAL DET securely into the EZ connector to ensure signal transfer and continuation
- **NEVER** use the DUAL STOPER system with detonating cord. The low strength surface detonator will not initiate detonating cord
- **NEVER** attempt to disassemble the delay detonator from the plastic EZ connector or use the detonator without the connector
- **NEVER** place more than 3 shock tube leads into the plastic EZ connector block. Misfires may result
- **NEVER** pull, stretch, kink or put tension on shock tube such that the tube could break
- **NEVER** drive any equipment over shock tube or out-of-hole connectors. Whenever charging or connecting from a manoeuvrable basket, platform or boom, always make sure that no shock tubes or EZ PLATINUM TRUNKLINE out-of-hole delays are or can become entangled
- **NEVER** connect EZ PLATINUM TRUNKLINE delays together until all holes have been primed and loaded and the blast site has been cleared of unnecessary personnel and equipment

Packaging Information
Additional product lengths and packaging densities are available on request. Please contact your representative for any additional information that may be required.

Dual Stoper (DS)						
Case Dimensions	605mm X 315mm X 460mm					
EZ PL TL length	Units	Dual Det length	Units	Total Units / case	Net Weight*	Gross Weight*
1.2	136	6.0	272	408	14.200	15.600
1.2	110	7.8	220	330	13.200	14.500

*Packaging weights may vary

DS = The EZ PLATINUM TRUNKLINE and DUAL DET are specifically pre-packed in for convenience of use

NOTE: For inventory control and different length combinations, the EZ PLATINUM TRUNKLINE and DUAL DET can be ordered separately
(brochures are available for reference).

Colour Codes and Delay Combinations
Connector block colours change according to delay or delay combinations

EZ Platinum Trunkline	
Delay (ms)	Block colour
200	Green

Recommended Storage and Shelf Life

Storage and Shelf Life	
Recommended Storage	6 months (well ventilated and dry)
Shelf Life	3 years

Transport and Handling

Transport	
UN Classification	1.1B
UN Number	0360
ZAX Number	355A

The PRIMADET DUAL STOPER must be transported, stored, handled and used in accordance with local and international laws and regulations
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