

Exel™ Starter



Description

Exel™ Starter is a non electric detonator assembly consisting of a coiled length Exel™ tube and Exel™ Connectadet™ SL LA with a delay of 0 ms.

Exel™ Starters are designed to provide simple connection to start a blast in quarry, open cut and underground applications. Exel™ Starter can be extended using Exel™ Lead in Line and splices to provide safe distance between the blast and point of initiation. (See TDS for Exel™ Connectadet™ SL / Exel™ Connectadet™ SL LA and Exel™ Lead in Line for further information).

Application benefits

Exel™ Starters are highly visible detonator assemblies with rugged, abrasion resistant tubing, which:

- Eliminate electrical hazards at blast site
- Provide positive blast initiation control
- Easy to handle and deploy - don't tangle

Recommendations for Use and Initiation

Shrapnel from the mini-detonator or the plastic SL connector block could damage Exel™ tubes in close proximity, which are not directly initiated by the unit. Always maximise the safety distance between the SL unit to adjacent Exel™ tubes. The SL block must be covered with sand, stemming or rocks to prevent any shrapnel damage to adjacent tubes.

Technical Properties

Product	Exel™ Starter
Shock Tube	Exel™ 3L or 3L XU (pink)
- Outer diameter (mm)	3.0 ±0.2
- Nominal tensile strength (min)	300 N at +20 °C
- Length (m)	30, 50 and 100
- Shock wave propagation (m/s)	2000 ±100
Detonator PETN Base Charge (mg)	160
Lead Azide Primary Charge (mg)	60
Connector block	7 tube capacity

If the connector block unit needs to be opened up after the lid has been closed, it can easily be made by taking the free end of a tube under the cover and then move it upwards, (see also TDS Exel™ Connectadet™ SL LA). Knife or other sharp tools should be avoided.

Exel™ Starter can be reliably initiated with:

- an approved blasting machine for shock tube initiation, e.g., Exel™ Start DS2 or Exel™ Start HN1
- a full-strength detonator (REF. DET. #3, or higher).

Packaging

Exel™ Starters detonators are packed into plastic or aluminium bags inside cardboard cases. All units within a case have the same tube length and 0 ms delay.

Tube length (m)	Qty per bag 1.4S	Qty per box 1.4S
30	4	20
50	2	10
100	1	5

Storage and Handling

Product Classification

Authorised Name: Exel™ Starter
 Proper Shipping Name: Detonator assemblies, non-electric
 Classification: 1.4S
 UN No: 0500
 EC Type Certificate: 0589.EXP.2783/18

Exel™ Starter detonators should be stored in a cool, dry detonator magazine. Stacks of cases should be no more than 2 metres high.

Exel™ Starter detonators should be used in temperatures from -45 °C up to 50 °C.

Exel™ Starter detonators have a shelf life of 2 years.

Disposal

Disposal of explosive materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a DEXPLOC representative for information on safe practices.

Safety

Avoid damage to the shock tube. Never pull so hard as to stretch or break shock tubing. A premature initiation may result.

Exel™ Starter provide a high level of safety against initiation by static electricity, electrical stray currents and radio frequency transmissions. However, they contain sensitive explosives, which can initiate under intense impact, friction or heat. As with all explosives these detonators must be handled and stored with care.

Training

This Technical Data Sheet is for information only. The Exel™ system including the Exel™ Starter should only be used by personnel who have been properly trained to use this system.

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