TECHNICAL DATA SHEET

Lubaex™ Lohko™ 110 Booster

Technical Properties

Nominal diameter	3 0mm
Nominal length	11 8mm
Nominal mass	110 g
Tunnel diameter – straight	7.9 – 8.6 mm
Tunnel diameter-stepped	6.5 – 8.6 mm
Nominal density	1.7 g/cm3
Shell color	Orange
Nominal detonation pressure	22 GPa
Water resistance	Excellent
Oil resistance	Excellent

Description

Lubaex™ Lohko™ 110 boosters are made of a high explosive composition cast into a cardboard shell. Two longitudinal tunnels in the booster accommodate either a detonator or detonating cord. One tunnel has straight walls while the other is stepped at the top of the primer to provide a stop for the detonator (see Figure 1). Detonating cord, signal tube or lead wires are protected from damage by a recessed well at the base of the booster. Lubaex™ Lohko™ 110 boosters can securely hold the detonator in place during loading, while still enabling safe removal of the detonator if required. Lubaex™ Lohko™ 110 boosters have a high density, and a high velocity of detonation (VOD) to maximize performance.

Safety

Lubaex™ Lohko™ 110 boosters contain molecular explosives, which can be initiated by intense impact, friction or heat. As with all high explosives, Lubaex™ Lohko™ 110 boosters should be handled and stored with care. Boosters must be handled with care and avoid impact with a solid surface or another booster. Any such collision may cause damage that could lead to a misfire, or a premature initiation. Lubaex™ Lohko™ 110 boosters may be used at temperatures up to 70ºC. DO NOT use these boosters with any detonator, which cannot be completely contained within the booster. If this is not observed, damage to the detonator may occur during charging which may lead to a premature detonation.

Application

Lubaex™ Lohko™ 110 boosters are reliably initiated by detonators or by detonating cords containing at least 10 g/m PETN. Lubaex™ Lohko™ 110 boosters have been specifically designed to provide reliable initiation of pumped, augered and packaged explosives. The main intended application, for Lubaex™ Lohko™ 110 boosters, is for use with explosives in hole diameters up to 89 mm. Lubaex™ Lohko™ 110 boosters will function reliably in any depth of water encountered in the mining environment.

Recommendations For Use

Use Lubaex™ Lohko™ 110 boosters with any detonating cord which has a PETN charge mass of 10 g/m or greater. Ensure the booster is securely attached to the detonating cord by passing the cord down through one tunnel, round the curved channel and back through the other tunnel. Tie the cord to form a loop, then lower the complete assembly to the desired location in the blasthole. Cut the detonating cord downline from its reel and adequately secure it at the blasthole collar. Charge the hole with explosives to the design level.

With Delay Detonators

Thread the detonator through the booster, shown in Figure 1. After assembly, the top and bottom faces may be taped for additional security against the detonator falling out especially in rough, angled blastholes. Lower the complete primer assembly to the desired location in the blasthole.

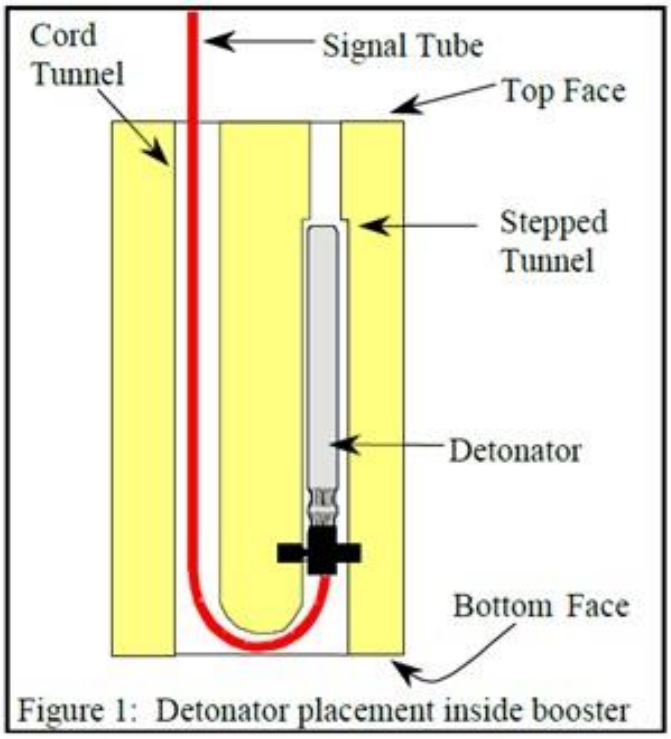

Figure 1: Detonator placement inside booster

Avoid walking on the signal tube or lead wires as this is likely to cause damage. In all applications, ensure that the primer is completely immersed in the explosive it is intended to initiate. This can be achieved by either pulling the primer up into the explosive or suspending the primer above the hole bottom during loading. Large diameter packaged explosives should be lowered on top of primers, rather than dropped from the blasthole collar.
The cord or tube downline should be kept taut during charging and stemming, to prevent damage and minimize abrasion. However, if a primer begins to float on top of a rising column of bulk explosive, temporarily slacken the downline. Once the surface of the explosive column has risen past the primer, tension can be reapplied to the downline.

Packaging

Lubaex™ Lohko™ 110 boosters are packed in cardboard cases. The case dimensions are 0.356 m x 0.261 m x 0.135 m. A case weighs 11 kg and contains 90 boosters.

Storage and Handling

Product Classification

Authorized Name: Lubaex™ Lohko™ 110
Proper Shipping Name: Boosters, without detonator
UN No: 0042
Classification: 1.1D
All regulations pertaining to the handling and use of such explosives apply. These boosters should be stored in a cool, dry magazine licensed for 1.1D explosives, and oldest cases should be used first. Lubaex™ Lohko™ 110 boosters have a maximum shelf life of 5 years in good storage conditions.