

TECHNICAL DATA SHEET

HiCORD®



Description

HiCORD® is the detonating cord used for blasting detonators, cap-sensitive explosives as well as cutting high-quality stones for construction and landscape gardening purposes. It has wide applications in controlled blasting and rock slope control, and can also be used as an alternative to *Trunk-Line Detonator (TLD)* in the open pit environment. HiCORD® can also be effective in blasting environment where electric detonators are hard to use due to static electricity, leakage current and strong radio frequency.

Features & Benefits



HiCORD® consists of polypropylene code with a variety of colors, a bobbin made by forfeited compact paper, and PETN as the ignition explosives.

HiCORD® is not easily detonated by min. static electricity, leakage current or flame. As HiCORD® has more detonating energy than strength 8 detonators, it is possible to detonate all the connected explosives without the use of detonators. HiCORD® is also convenient and safe to use with excellent water-resistance and physical durability.

HiCORD® 50

HiCORD® 50 is suitable for use in trunk lines. HiCORD® 50 can be also used with a HiNEL Plus® Bunch connector to detonate a bundle of shocktubes of non-electric detonators, HiNEL Plus® series.

HiCORD® 100

HiCORD® 100 is suitable for use as both down line and trunk line in quarries and mines, control blasting in tunnels and open pit, as well as in a blasting under severe conditions.

HiCORD® 200

HiCORD® 200 is mainly used in special blasting (Smooth blasting, Cushion blasting, Submarine Blasting, Pre-splitting, etc). It is also used during quarrying, controlled blasting in both tunnels and open pit, and blasting under tough conditions.

Technical Data

Product	HiCORD®		
	50	100	200
Core Explosives	PETN		
Velocity (m/s)	7,000		
Charge of PETN (g/m)	5	10	20
Outer Diameter (mm)	3.4±0.2	4.4±0.2	6.0±0.2
Tensile Strength (kgf)	75	85	170
Color	Green	Red	White

Packaging

HiCORD® are packed in cardboard boxes.

Product	HiCORD®			
	50	100	200	50 (For bunch connector)
Size of Box (mm)	555 X 275 X 190			636X226X80
M / Bobbin	300	250	150	-
Bobbin / Box	2	2	2	-
M / Box	600	500	300	400ea/Box
Net weight (kg)	6.5	7.0	8.0	2.5
Gross Weight (kg)	8.5	9.0	10.0	3.0

Hazard Classification

UN No. (Class / Division):	0065 (1.1D)
Proper Shipping Name	CORD, DETONATING flexible
EmS	F-B, S-X

Shelf Life

The shelf life of HiCORD® is 2 years from the date of manufacture.

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Usage Instructions

HiCORD® is not recommended for use in blast holes with temperature over 65°C. Tighten connections in accordance with established methods. Cord-to-cord connections should be made only when the detonating cord is dry. When using a detonator to detonate HiCORD®, fasten the detonator and HiCORD® using scotch tapes and ensure that they are connected with each other in one direction.

Safety

HiCORD® should be handled according to the same level of caution given to other explosives materials. Damages to the cord prior to firing should be avoided. Do not attach the detonators to the cord until the blasting preparation is completed. Use a sharp knife when cutting the cord and never use any shock or friction to cut as it may cause unintended explosion. Only the authorized workers should be allowed to use or handle the products.

Storage

Never store HiCORD® with any other detonator products in the same magazine. They should be stored in physically separated area. Keep the products away from all sources of ignition, such as heat, friction and electrical energy. The product should be stored in cool and dry area. It is recommended that the magazine is equipped with proper temperature and humidity control system. Locking device should be installed in the magazine and access should be restricted for all unauthorized people and children.

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The use of Product is an intrinsically dangerous activity and must be restricted to qualified and trained users in possession of any necessary permits and licenses. Always comply with appropriate safety and risk prevention measures and with applicable laws.

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