

**MINING / CONSTRUCTION**

**Quick-Chem™ System**

**RESIN CAPSULE INSERTION SYSTEM**

**DESCRIPTION**

The Quick-Chem™ resin capsule insertion system ensures safe, fast and complete insertion of resin capsules. The system consists of a specially designed cap suitable for attaching to Lokset™ resin capsules and an insertion tube that carries the resin capsule(s) to the back to of the holes and is then removed for re-use.

The insertion tube is fitted with a threaded R32 shank adaptor that locates in the drill coupling of the Jumbo drifter. The Quick-Chem™ system is intended for mechanised rock bolting but also be used for manual installation.

When used with Double Clip coupled Lokset™ Resin Capsules, the Quick-Chem™ system ensures that 100% hole filling is consistently achieved.

The standard Quick-Chem™ system is available for 30 mm diameter Lokset resin capsules.

**APPLICATION AND USE**

The Quick-Chem™ system is used in conjunction with Lokset™ resin capsules to ensure quick, safe, efficient and remote insertion of resin capsules into bolt holes in mines and tunnels.



**ADVANTAGES**

- Safe; enables resin capsules to be inserted in the bolt holes from remote location under supported ground.
- Quick; no requirements for lifting baskets or manual resin insertion; capsule can often be placed in insertion tube from operator’s cab.
- Efficient; up to 200 hole insertions can be achieved from each tube.
- Easy to use; clear tubing indicates position of resin capsule.
- Robust; strong and flexible insertion tube.
- Versatile; can be used with most drill rigs and in most rock bolting situations.
- Adaptable; can be inserted through mesh and broken ground.
- Reliable; ensures the resin capsule reaches the back of the hole undamaged.
- Quality assured: when combined with Double-clip coupled resin capsules, ensures that the full quantity of resin capsule is placed in the hole, in one operation.

## **APPLICATION METHOD**

Application Instructions:

1. Securely attach appropriate Quick-Chem™ cap to the end of the Lokset™ resin that is to go to the back of the hole. (Ensure cap is attached to the fast end of the capsule, that goes in the hole first).
2. Place the capsule with the cap attached in the Quick-Chem™ insertion tube. Often the operator can place the capsule in the tubing from the Jumbo cab.
3. Fit the tube to the shank of the drifter. (After the first fitting of the tube, it can remain in position).
4. Collar the tube in the hole and push into the hole until the resin capsule cannot be seen.
5. Withdraw the tube. The capsule is securely located in the hole ready for bolt insertion.

The Quick-Chem™ system with Lokset™ resin capsules is compatible with most bolting rigs used in mining and tunnelling.

Double Clip Lokset™ resin capsules are available for use with the Quick-Chem™ or other installation systems. The capsules are joined together during the manufacturing process. Usually, one capsule is of fast resin and the other is slow resin. The advantages of coupled capsules include:

- Enable more efficient use of the Quick-Chem™ installation system
- Eliminate having to use two separate capsules
- No capsule connectors or joiners are required
- Quick and easy to handle
- Supplied folded at the join in convenient-length carton.
- Assurance of loading the full design resin charge in one operation separate.

## **SAFETY INSTRUCTIONS AND LIMITATIONS**

Follow guidelines as directed by mine, for personal protective equipment required underground.

## **PACKAGING AND TRANSPORTATION**

- Quick-Chem™ Caps

Quick-Chem™ caps with a diameter of 30 mm are pre-fitted to the Lokset™ resin capsules at the Minova factory.

Capsules with 30 mm diameter caps should be used in holes with a diameter in the range of 35 – 37 mm. Use a 35 mm drill bit.

- Quick-Chem™ Inserter Tubes

Quick-Chem™ Inserter Tubes with shank adaptors are supplied in bundles of 20 units.

## **STORAGE AND SHELF LIFE**

Do not store the Quick-chem tubes in direct sunlight. They may distort and will become brittle from prolonged exposure.

## **DISPOSAL**

The Quick-Chem™ components themselves may be disposed of as plastic waste.

## **DISCLAIMER**

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