

## Dyno Nobel Americas

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### Re-Closure of Specification Boxes for Packaged Explosives and Detonators – NONEL®

Explosive products are packaged in UN specification packages (boxes) meeting U.S. Department of Transportation (DOT) shipping requirements. Whenever a UN specification box is opened and one or more units of explosives are removed for any purpose, a void is created, compromising the performance of the specification box as originally tested.

NONEL packages opened in the field are required to be closed and sealed for transport over a public road just as they were closed and sealed from the factory.

- Open the top of the box only.
- Do not tear or remove any staples if present.
- Do not discard or destroy any inner packaging (pads, dividers, compartments, etc.) until certain no repackaging for return is necessary.

Consumers who purchase Dyno Nobel products, use less than full-box quantities, and then transport partial UN specification boxes of explosives and/or detonators assume the responsibility to meet this DOT re-closure requirement, per 49 CFR Part 178.2 (c).

#### **Federal Mandatory Training Requirements for Packaging:**

DOT Federal Mandatory Training Requirements for Packaging related tasks in accordance with 49 CFR 172.704 must be complied with as follows.

The DOT regulates hazardous materials (explosives) for safe transportation over public roads. To ensure these hazardous materials in their original packages can be safely transported, the DOT requires that anyone that performs a “function-specific” task associated with erecting a package, packaging product into a container, closing and sealing a container of hazardous materials, and offing a package of hazardous materials for shipment be Trained, Tested, and Certified that each one of these people know exactly what is to be done correctly.

This function-specific training must be done within 90 days of employment and every three years after. Records must be kept inclusive of the preceding three years for as long as that employee is employed as a hazmat employee and for 90 days thereafter.

**NONEL Re-Closure Packaging Instructions:**

**To Close Box with Flaps:** Boxes with flaps require the minor (shorter) flaps to be closed first and the major (longer) flaps to be closed last. These boxes have tape sealing the box from the factory. The tape required to seal the box is 3-inch-wide 3M 371 or 3M 355. It should be applied over the original factory tape centered on the major flaps and extending a minimum of 2 inches down the sides of the box.

**To Close Box with Locking Tab:** One smaller box uses a corrugated tab inserted into a slot in the box top as a locking feature. This box requires the users to fold the inner flaps in and close the lid and insert the locking tab into the slot on the box top.

**To Close Telescoping Boxes:** Place the box top onto and over the box bottom. These boxes have tape sealing the box from the factory. The tape required to seal the box top to the bottom is 3-inch-wide 3M 371 or 3M 355. It should be applied over the original factory tape on the box bottom and extending a minimum of 2 inches up the sides of the box. Do not tear or remove staples.

If units have been removed from the box and a void or open space has been created, it is required that dunnage (packaging materials used to fill voids and spaces) be used to prevent free movement of the remaining products within the box before the box is closed and sealed. Appropriate dunnage to cushion and occupy the void or space would be fillers or spacers such as paper, corrugated fiberboard/cardboard, or anti-static bubble wrap.

Any inner packaging (pads, dividers, compartments, etc.) inside the box used by the factory must remain in the box to maintain the hazard class and/or packaging requirements of the material.

**Always**

**Never**

Ensure box is properly marked and labeled in accordance with Hazardous Materials Regulations	Mix or commingle the package with any other product other than what was originally contained in the package
Ensure an accurate quantity is recorded on the reclosed package and double count or buddy-check the number of units repackaged prior to re-closing	Package with more than the unit count and total net explosives weight originally packaged and sealed at the time of manufacturing
Mark the new package count legibly and visibly on the specification box content label	Cover any part of the Hazardous Material packaging label
Use appropriate and sufficient dunnage materials	Use a damaged, wet, punctured, or cut box
Contact Dyno Nobel when packaging a product return of any kind (Return Product Authorization – RPA)	Package excessively damaged product