

## **Dyno Nobel Americas**

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### **Re-Closure of Specification Boxes for Packaged Explosives and Detonators Packaged Emulsion**

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.

Packaged emulsion packages opened in the field are required to be closed and sealed for transport over a public road just as the box was closed and sealed from the factory. Telescoping boxes arrive from the factory containing one strap of 12 mm wide heat-sealed poly strapping installed around the circumference and centered. The approved Alternate Tape Closure Method is described below.

Consumers who purchase Dyno Nobel products, use less than full-box quantities, 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 offering 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.

#### **Packaged Emulsion Re-Closure Packaging Instructions:**

**To Close Telescoping Boxes:**

Place the box top onto and over the box bottom. The tape required to seal the box top to the bottom is 48 mm 3M 355 tape. Complete assembly by applying one strip of 48 mm pressure sensitive plastic tape installed across the bottom panel and up each long side panel not less than 2 inches. Tape is centered 20 mm from both short side panels.

If units have been removed from the box, it is required that dunnage be used to fill the void created in the box from the units removed to prevent freedom of movement of the remaining units in the box before the box is closed and sealed. Appropriate dunnage would be paper, corrugated fiberboard, or anti-static bubble wrap.

Any inner packaging inside the box from the factory must remain in the box to maintain the hazard class and packaging requirements of the material.

Always	Never
Ensure box is properly marked and labeled in accordance with Hazardous Materials Regulations	Package with any other product other than what was originally contained
Double-count 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