



## Safety in Handling and Use

### Hopper Car Unloading

# DuPont™ Elvax®

EVA resins

## Suggested Hopper Car Unloading Guidelines for Elvax® Resins

1. Unloading operations should be performed by persons authorized and instructed in hopper car unloading and safety.
2. Brakes should be set and wheels chocked on all cars being unloaded. Further protection should be provided by installing and locking a derail device or locking out the track switch leading to the rail siding on which the car is located.
3. Caution signs should be placed on the track or cars to give necessary warning to persons approaching the cars from the open end of the siding. The signs should remain in place until unloading is completed.
4. Cars should be properly electrically grounded before unloading begins.
5. Before starting the vacuum system, the hatch cover should be opened for the compartment to be unloaded. An exception is for the DUPX cars which are stenciled: "NOTICE: VENTED HOPPER CAR - IT IS NOT NECESSARY TO OPEN HATCH COVERS TO UNLOAD THIS CAR."
6. Open the outlet caps on both ends of the unloading tube and attach the vacuum hose to the nozzle.
7. Rotate the handle to the open position and start the vacuum unloading system. Adjust the flow rate by positioning the handle between the open and closed positions.

Please Note: For cars with gates showing a "far side" and a "near side" open position, rotate the handle to the "far side" open position and adjust the flow rate by positioning the handle between the "open" and "closed" positions. Once the "far side" is completely unloaded, rotate the handle to the "near side" open position and adjust for flow to complete the unloading operation.

8. When compartment unloading has been completed, stop the unloading vacuum system. Verify the compartment is empty. Rotate the handle to the closed position. Remove the vacuum hose. Close and secure the caps on both sides of car and secure the hatch covers. *Note: In the event a hopper car is only partially unloaded, check to assure proper balancing of the load before shipping.*
9. Follow steps 5 through 8 for each compartment.
10. When the hopper car has been completely unloaded, check to ensure that all the outlet caps and hatch covers are properly secured, then disconnect the grounding connections and prepare the car for shipment.



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