HOW TO: Guidelines on Packaging Perishable Products

**PACKAGE USING DRY ICE**
1. Line the insulated container with at least one 2-mL plastic bag and sufficient absorbent material above and below the product.
2. Double bag products that can thaw or melt.
4. Place sufficient amount of dry ice around product. Use dry ice block, pellets or snow.
5. Pack tightly and fill void spaces with dunnage packaging material to prevent product movement.
6. Place lid on insulated container. DO NOT seal completely — venting is needed to allow carbon dioxide gas to escape.
7. Place insulated container inside corrugated box.
8. Securely tape corrugated box with plastic carton sealing tape. Complete the required paperwork and labeling.

**PACKAGE USING REFRIGERANT PACKS**
1. Line the insulated container with at least one 2-mL plastic bag and sufficient absorbent material above and below the product.
2. Arrange products compactly in the insulated container, allowing space for refrigerant.
3. Place sufficient amount of refrigerant on top and around product. Pack tightly and fill void spaces with dunnage packaging material to prevent product movement.
4. Close the liner securely.
5. Place lid on insulated container and seal with vinyl or plastic carton sealing tape.
6. Place insulated container inside corrugated box.
7. Close box securely. H-seal the corrugated box with plastic seal tape. Apply tape over all box flaps and seams using a minimum of two (2) inches to secure and restrict air infiltration.
8. Securely tape corrugated box with plastic carton sealing tape.

**PACKAGE USING COLD PACKS AND DRY ICE**

**Package conditioning for perishable product shipment, extended 10-20 transit hours**
1. Line the insulated container with at least one 2-mL plastic bag and sufficient absorbent material above and below the product.
2. Arrange products compactly, allowing space for refrigerant.
3. Place sufficient number of cold packs on top and around product. Pack tightly and fill void spaces with dunnage packaging material to prevent product movement.
4. Close the liner securely.
5. Place lid on insulated container. DO NOT seal completely — venting is needed to allow carbon dioxide gas to escape.
6. Place insulated container inside corrugated box.
7. Close box securely. H-seal the corrugated box with plastic seal tape. Apply tape over all box flaps and seams using a minimum of two (2) inches to secure and restrict air infiltration.

**PACKAGE USING CONTROLLED TEMPERATURE RANGE**
1. Line the insulated container with at least one 2-mL plastic bag and sufficient absorbent material above and below the product.
2. Place product inside the insulated container. Surround product with warm, leakproof gel refrigerant.
3. Place desired temperature conditioned refrigerant packs on top and around the product as a buffer control.
4. Place sufficient amount of proper refrigeration on top and around the temperature buffer refrigerant packs. Pack tightly and fill void spaces with dunnage packaging material to prevent product movement.
5. Close the liner securely.
6. Place lid on insulated container and seal with vinyl or plastic sealing tape.
7. Place container in outer corrugated box.
8. Close box securely. H-seal the corrugated box with plastic seal tape. Apply tape over all box flaps and seams using a minimum of two (2) inches to secure and restrict air infiltration.

**PACKAGE USING WARMED REFREGERANT**
1. Line the insulated container with at least one 2-mL plastic bag and sufficient absorbent material above and below the product.
2. Place product inside the insulated container. Surround product with warm, leakproof gel refrigerant.
3. Close the inner bag securely.
4. Pack tightly and fill void spaces with dunnage packaging material to prevent product movement.
5. Place lid on insulated container and seal with vinyl or plastic sealing tape.
6. Place container in outer corrugated box.
7. Close box securely. H-seal the corrugated box with plastic seal tape. Apply tape over all box flaps and seams using a minimum of two (2) inches to secure and restrict air infiltration.
8. Close box securely. H-seal the corrugated box with plastic seal tape. Apply tape over all box flaps and seams using a minimum of two (2) inches to secure and restrict air infiltration.

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We highly recommend you conduct your own shipping and storage test to determine the proper amount of coolant that will perform consistently with your product shipments. ([Suggested: Temperature probes should be positioned in the product during testing.](https://example.com))

*Caution: dry ice is dangerous to handle and subject to special handling and labeling. Contact your dry ice supplier and follow all recommended guidelines for safe handling.*

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