

O-Wrap™ Overwrap Bags

Overwrap Sealer Recommendations



Top-Level

Van der Stähl MS-350 Cost ~ \$4,000

How to use:

- * Slide overwrap between heating jaws
- * Press the foot pedal

Advantages:

- * Fine control over temperature, heating and cooling times
- * Medical grade and vendor-supplied calibration
- * Durable and consistent
- * Widest range of seal thickness (up to 12mm)

Disadvantages:

- * Expensive
- * Can only seal near the edge of the overwrap

Entry-Level

Uline H-190 Impulse Sealer Cost ~ \$100

How to use:

- * Align overwrap across the heating bar (3mm strip)
- * Lower arm to initiate heating sequence

Advantages:

- * Very low cost
- * Adjustable heat timer
- * Easily accommodates longer bags with lower seals

Disadvantages:

- * Must be used gently to prevent damage
- * Narrow seal thickness contribute to higher chance for poor seals

Non-Conventional

FoodSaver V2240 Cost ~ \$150

How to use:

- * Align overwrap across the heating bar (4mm strip)
- * Close lid and lock the latch
- * Press "Seal" to initiate the heating sequence

Advantages:

- * Low cost
- * Sturdy design resists damage

Disadvantages:

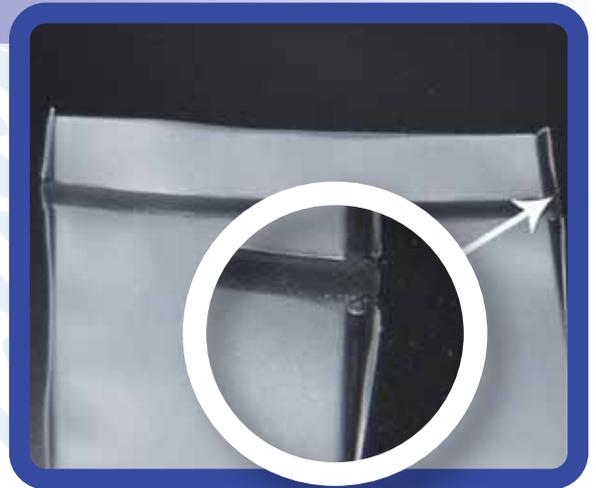
- * Lacks temperature control

Perfect Seal

A perfect seal consists of a continuous, clear seal from edge to edge, with no folds, channels or gaps.

To achieve a perfect seal:

Prior to sealing, purge the air from the O-Wrap™. Lay the O-Wrap™ flat across the middle of the heating bar on the sealer; avoid folds or curved edges. Check to insure the sealer produces a clear, consistent seal from edge to edge. Optimally, sealers should heat to above 210°F and maintain for a minimum of 3 seconds. Let cool 5 seconds, before removing O-Wrap™ from the heat bar. If resizing of the O-Wrap™ is necessary, trim using a sharp blade or scissors following the straight edge of the seal.



Channel Seal

Poor seals (i.e. incomplete, folded or imperfect) can result in gaps and channels that allow LN to enter the O-Wrap™ pouch. The liquid nitrogen will rapidly expand when thawed, and cause bursting or fractures of the O-Wrap™ and cassette.

INCOMPLETE

Problem: Placement error on the heat element caused the seal to fall short of the O-Wrap™ edge.

Solution: To prevent this, position O-Wrap™ in the middle of the heating bar prior to sealing.



FOLDED

Problem: Fold in seal leaves a potential pathway for liquid nitrogen to enter.

Solution: Ensure the bag is laid flat across the bar sealer prior to sealing.



IMPERFECT

Problem: Heat is set too low to melt two sheets of EVO, specifically at the edges. Cloudy throughout seal, slightly ridged at edge of seal and a small channel exists where the seal meets the edge.

Solution: Increase heat setting or sealing time (above 210°F).



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BIOMEDICAL

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