

# O-Wrap Overwrap Sealer Recommendations

# OVERWRAP SEALER RECOMMENDATIONS

## SEALING METHODS

### Heat Sealing

O-Wrap bags are made of a proprietary EVO material and is able to be heat sealed. OriGen has internally validated the following heat-sealing conditions for O-Wrap bags on the Van der Ståhl MS-350 jaw sealer (series G):

Product	Heating Temperature (°F)	Heating Time (sec)	Cooling Temperature (°F)
O-Wrap	220°F	3.0 sec	104°F

*Note:* Settings and temperatures may vary by equipment models and units. Validate all processes before use with O-Wrap bags.



**Impulse Sealing:** O-Wrap bags may also be sealed by impulse sealers. All impulse sealers are different and it is up to the user to validate equipment settings for use with O-Wrap bags. Potential sealer option includes the Uline H-190 Impulse Sealer.\*

*\*Impulse sealer not formally qualified by OriGen for sealing operations with O-Wrap Overwrap Bags*



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## PERFECT SEAL

For instructions on how to use O-Wrap bags, see the IFU booklet provided with each product package.

Lay the O-Wrap flat across the middle of the sealing bar on the equipment; avoid folds or curved edges. Check to ensure the sealer produces a clear, consistent seal from edge to edge. The O-wrap bags may be trimmed using a sharp blade or scissors, if necessary.



## COMMON SEAL FAILURES

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 could 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 the edge of the seal and a small channel exists where the seal meets the edge.

*Solution:* Increase heat setting or sealing time (above 220°F).

