The Thermo Scientific ALPS 50 V microplate heat sealer is designed to provide sealing consistency in low-throughput environments. Heat sealing offers superior sample protection of storage and reaction plates in applications including compound storage, sample archiving and PCR.

Thermo Scientific
ALPS™ 50 V
Microplate Heat Sealer

Quality Sealing Options. With the semi-automated Thermo Scientific ALPS 50 V microplate heat sealer, secure tight seals around individual wells to eliminate sample loss through evaporation and cross contamination between wells. Choose from a wide range of heat seals, including piercable, optically clear and permanent, for any application.

Application Flexibility. Simple on-board touch pad controls adjust sealing temperature and time. Coupled with an audible alarm indicating sealing completion, the ALPS 50 V sealer provides optimal sealing control and ensures consistency.

Ergonomic Design. The counter lever handle design provides minimal strain when operating the instrument. Additionally, the ALPS 50 V sealer weighs only 7.2 kg (15.9 lbs) for ease of placement and relocation.

Knowledgeable Support. Our team has a strong reputation for supporting both equipment and consumables, and can demonstrate the ALPS 50 V sealer in your laboratory, as well as determine which seal is best for your application.
Thermo Scientific ALPS 50 V Microplate Heat Sealer

Dimensions (W x D x H) 220 cm x 321 cm x 425 cm
Applicable Standards
- Weight 15.9 lbs/ 7.2 kg
- Power Supply 100-130 V AC, 50-60 Hz or 220-240 V AC, 50-60 Hz
- Temperature Set Point Range 125 °C to 200 °C in 1 °C increments
- Fusible 350 W
- Time Set Point Range 1 to 9 seconds in 0.5 second increments
- Power Rating 100-130 V – T3.15A (IEC 127) or 220-240V – T1.6A (IEC 127)
- Operating Humidity Range 20-80% non-condensing
- Mains Input Connector IEC 320
- Operating Temperature Range 18 °C to 30 °C

Seals

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Characteristics</th>
<th>Compatible Plate Material</th>
<th>Sealing Conditions</th>
<th>Seal Integrity Range</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-0559</td>
<td>Thermo-Seal</td>
<td>Foil laminate; very strong seal that can only be peeled using the Foil Stripper (see ordering information below); can be pierced with a simple pipette tip or Pierce Plate (see ordering information below); good solvent resistance; recommended for use with DMSO</td>
<td>PP</td>
<td>1.5 to 2.5 seconds at 165 °C to 170 °C</td>
<td>-80 °C to 120 °C</td>
<td>Long term storage including storage at low temperatures; transportation and high temperature applications such as PCR, including use in waterbath thermal cyclers</td>
</tr>
<tr>
<td>AB-0757</td>
<td>Easy Pierce</td>
<td>Foil material; easily pierced; peelable bond that can be removed by hand; second seal can be applied over existing seal; recommended for use with DMSO</td>
<td>PP, PE</td>
<td>0.5 to 3.0 seconds at 165 °C to 175 °C</td>
<td>-80 °C to 80 °C and up to 120 °C with cycler lid pressure</td>
<td>Well suited for 384-well formats where piercing is a useful method for sample retrieval; second seal can be applied over existing seal, suitable for PCR with screw-down lid</td>
</tr>
<tr>
<td>AB-1720</td>
<td>Easy Pierce</td>
<td>Thin foil material; easily pierced; peelable bond that can be removed by hand; good solvent resistance; recommended for use with DMSO</td>
<td>PP, PE</td>
<td>0.5 to 2.0 seconds at 165 °C to 175 °C</td>
<td>-80 °C to 80 °C and up to 120 °C with cycler lid pressure</td>
<td>Well suited for 384-well formats where piercing is a useful method for sample retrieval; suitable for PCR with screw-down lid</td>
</tr>
<tr>
<td>AB-0745</td>
<td>Easy Peel</td>
<td>Foil laminate; difficult to pierce; peelable bond that can be easily removed by hand, but forms weld with PE plates; can be removed and new seal applied several times; some solvent resistance and suitable for DMSO use below 4 °C</td>
<td>PP, PE, COC</td>
<td>1.5 to 2.5 seconds at 165 °C to 170 °C</td>
<td>-200 °C to 90 °C and up to 120 °C with cycler pressure</td>
<td>Ideal for long term storage at low temperatures; seal can be applied, removed and a new seal applied several times; suitable for PCR with screw-down heated lid thermal cyclers only</td>
</tr>
<tr>
<td>AB-1797</td>
<td>Clear Seal</td>
<td>Thin polymer material; able to be pierced; peelable seal when layered; good optical clarity; some solvent resistance</td>
<td>PP, PS, PE</td>
<td>1.5 seconds at 170 °C</td>
<td>-80 °C to 80 °C and up to 120 °C with cycler pressure</td>
<td>Suitable for fluorescence and colorimetric applications; suitable for PCR applications with screw-down or clip-down heated lid thermal cyclers only</td>
</tr>
<tr>
<td>AB-0812</td>
<td>Clear Seal</td>
<td>Thin polymer material; peelable seal; good optical clarity; some solvent resistance</td>
<td>PP, PS, PE, COC</td>
<td>1.5 to 3.0 seconds at 170 °C</td>
<td>-80 °C to 120 °C</td>
<td>Ideal for fluorescence and colorimetric applications; suitable for PCR applications with screw-down or clip-down heated lid thermal cyclers only</td>
</tr>
<tr>
<td>AB-0685</td>
<td>Clear Seal</td>
<td>Clear laminate; weld seal that cannot be peeled or pierced; good optical clarity and solvent resistance; recommended for use with DMSO; clear for sample inspection</td>
<td>PP</td>
<td>1.5 to 2.0 seconds at 170 °C</td>
<td>-80 °C to 120 °C</td>
<td>Clear for sample inspection; due to strong unpeelable seal properties, it is suitable for storage and disposal of hazardous material; also suitable for PCR applications</td>
</tr>
</tbody>
</table>