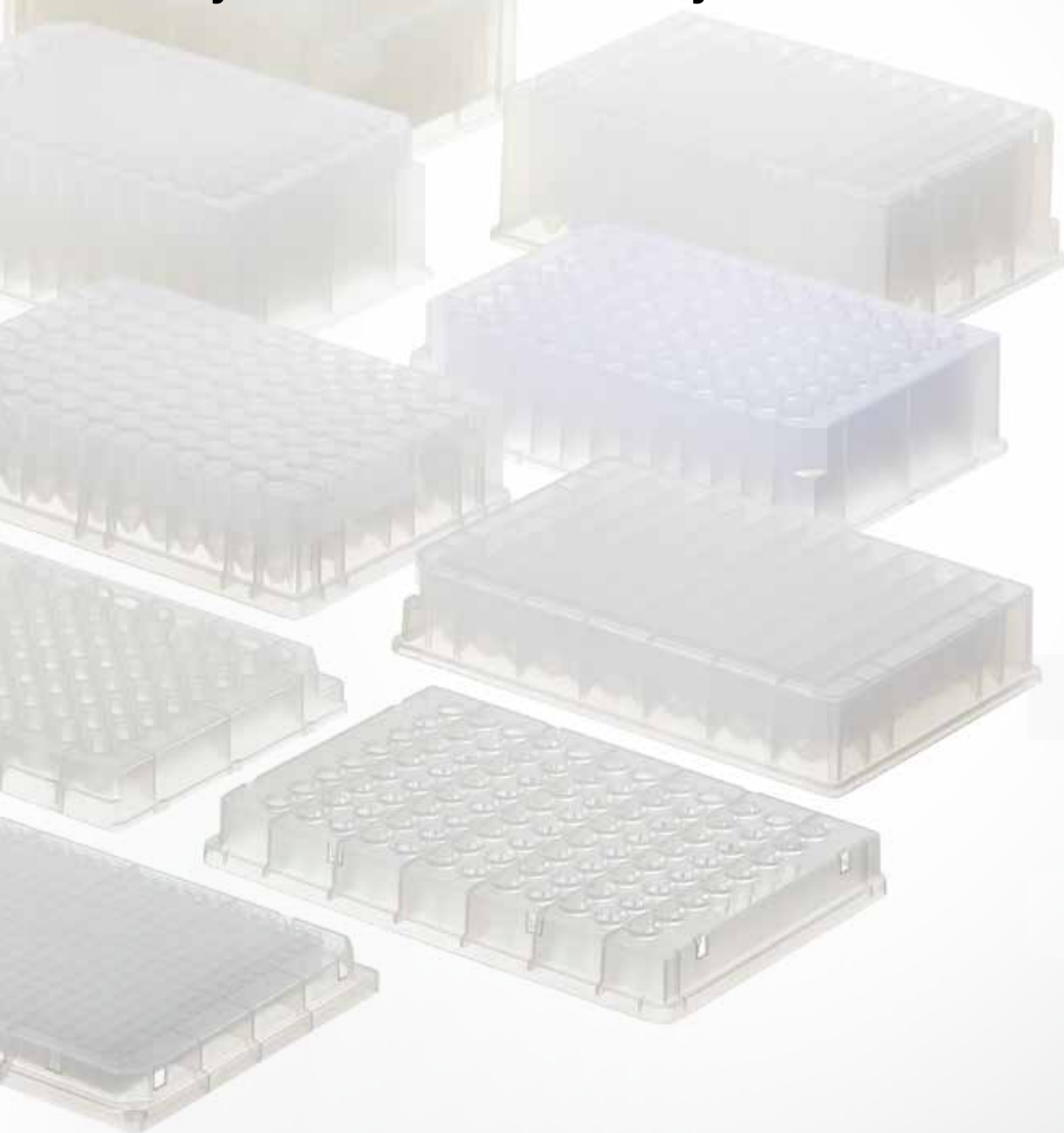


Thermo Scientific

Sample processing & storage plates, seals, and sealers

Quality. Automation. Security.





High-quality polypropylene plates for reliable sample processing and storage

Thermo Scientific polypropylene MicroWell and DeepWell plates provide performance and value for sample storage, high-throughput screening and molecular diagnostic assays. Our 48-well, 96-well, and 384-well plates are made with high-quality virgin USP <661.1>, medical-grade polypropylene resin, and benefit from exceptional design and manufacturing advancements that ensure sample integrity and aid in your workflow efficiency.

Choose from an extensive range of plate formats, well shapes, geometries and sealing options that ideally support even the most demanding environments in automated drug discovery, molecular biology and genomics applications.

Contents

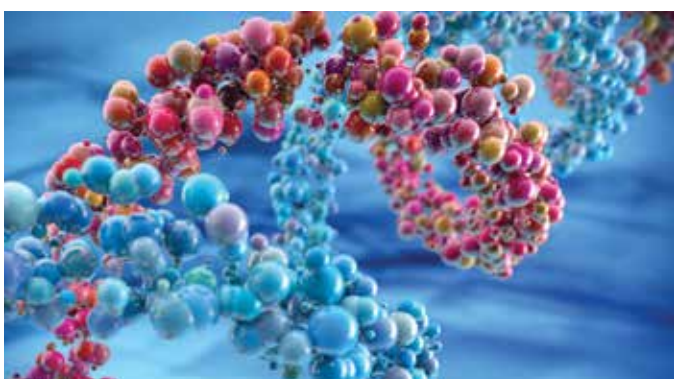
Overview and Features	3
<hr/>	
Find the right DeepWell or MicroWell Plate	6
DeepWell and MicroWell Plate Ordering Information	7
<hr/>	
Sample Processing and Storage Plate Closures	9
Adhesive Seal Ordering Information	11
CapMats and Lids Ordering Information	12
Heat and Automation Seal Ordering Information	14
<hr/>	
Heat Sealer Comparisons	13
<hr/>	
Heat Sealer Specifications	15
<hr/>	
OEM Partnership and Product Customization	17
<hr/>	

Reliability in demanding applications



Benefits for high-throughput screening

- Shared-wall to minimize plate height for higher volumes
- Low extractables and leachables
- Stacking ribs, molded slots and pads for automation grippers
- ANSI/SLAS-compliant



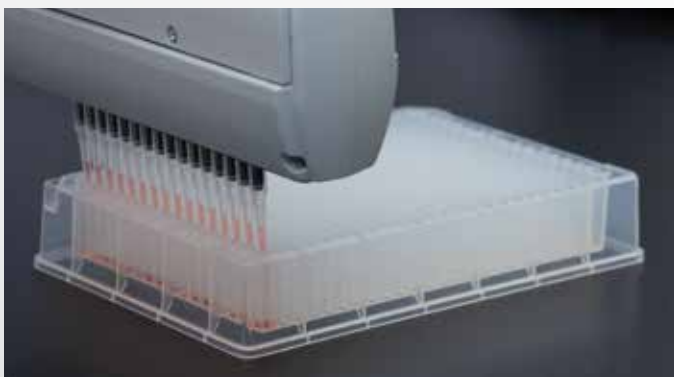
Benefits for molecular biology

- Magnetic bead and steel bead extractions
- Certified DNA-, DNase-, RNase-, and PCR inhibitor-free
- Color options for workflow tracking
- Inert PP use with DMSO, methanol, ethanol, and isopropanol



Benefits for compound management

- Visible alphanumeric grid
- Virgin resin USP <661.1> compliant
- Raised well rim for secure seals
- Peelable and pierceable seals and equipment



Benefits for general lab work

- Square and round wells
- 55µL–6mL volume range
- 48-well to 384-well plates
- White and black plates for luminescence and fluorescence assays
- Sterility of SAL 10^{-6}

Sample processing and storage plate features



Virgin polypropylene material

High-value compounds, cells, and reagents require the most inert material to reduce risk of interacting with any aspect of the storage vessel. Our high-quality plates are manufactured with strict quality control using only virgin medical grade polypropylene resins tested and meeting the USP <661.1> plastic materials of construction. This inert material helps ensure low extractables and leachables and is suitable for use with DMSO, ethanol, and isopropanol. And because polypropylene is naturally low-binding, our plates support demanding applications such as molecular biology, diagnostic testing, and where nucleic acid processing requires special plate performance characteristics.



Designed for performance

All of our sample processing and storage plates are designed to help ensure sample integrity and aid in workflow efficiencies. Our plates incorporate an alphanumeric grid for referencing sample location in manual work. Thermo Scientific Nunc plates innovated the share-wall technology to increase volume combined with lower overall plate height that helps optimize storage capacity. A raised chimney at the top of each well enables more reliable heat and adhesive sealing, and the design of the skirt geometry around the plate provides for stable stacking in storage. Automation slots molded in the skirt and deck help optimize compatibility with robotic grippers and arms. Finally, our plates are available as certified human DNA-free, DNase- and RNase-free, endotoxin-free, PCR inhibitor-free, and with a sterility assurance level (SAL) of 10^{-6} .



Clean room manufactured and sterility assurance level (SAL) of 10^{-6}

Thermo Scientific™ Abgene™ plates are backed by industry-leading clean room manufacturing and are guaranteed human DNA-free, DNase-, RNase-, and PCR inhibitor-free, while Thermo Scientific™ Nunc™ microplates are available DNase-, RNase- and endotoxin-free with a sterility assurance level (SAL) of 10^{-6} . We adhere to strict, industry-leading manufacturing processes and utilize only virgin, medical-grade polypropylene resins to ensure that our plates won't impact sample integrity or inhibit downstream analysis.

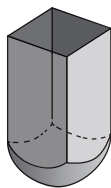
Extensive selection

Our portfolio of plates is structured to enable our customers with products that are ideally suited to their particular applications and workflow needs, while always delivering the assurance of quality, performance, and value. All of our plates are designed according

to ANSI/SLAS guidelines and are compatible with both manual and automated processes. Select the plate best suited for your needs using the following available with our plates:

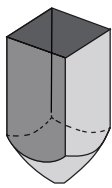
Selection criteria	Available options
Sterility level	<ul style="list-style-type: none">• Non-sterile• Sterile to SAL 10⁻⁶• Clean room certified: Human DNA-free, DNase-, RNase- and PCR inhibitor-free
Format	<ul style="list-style-type: none">• 48-well• 96-well• 384-well
Well shape	<ul style="list-style-type: none">• Square – Maximizes volume in ANSI/SLAS-1 footprint• Round – Maximizes sample mixing
Well bottom geometry	<ul style="list-style-type: none">• Round (U) – For best sample resuspension and mixing• Conical/Pyramidal (V) – For best sample recovery, reduced dead volume• Spindle (V) – Virtually eliminates dead volume

Square Well



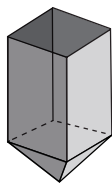
U Bottom

Square Well



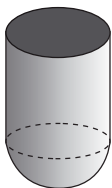
V-conical

Square Well



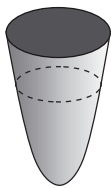
Pyramidal

Round Well



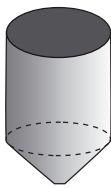
U Bottom

Round Well



V-spindle

Round Well



V-conical



Automation enabling

Customers using manual processes will appreciate quality design touches like built-in alpha-numeric grids for tracking, a higher rim for ease of sealing, and raised ribs for easier and more stable stacking. But perhaps a greater feature is that our entire portfolio of plates meets the recommendation of American National Standards Institute (ANSI/SLAS) to enable workflow automation. Select any Thermo Scientific plate and you can be assured that it is ready for incorporation into automated processes, whether barcoding and tracking, sealing or liquid handling, and is also compatible with automation equipment. You won't have to change your plate selection as you grow, scale or adopt new processes.

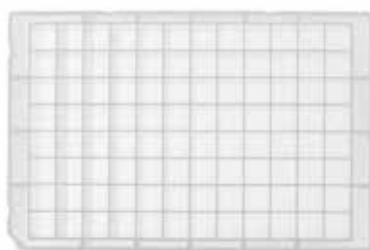
Find exactly the right plate for your needs

Thermo Scientific 48-, 96-, and 384-well plates are an economical and reliable solution for sample storage and processing, high-throughput screening, and low-binding assays. Select from a large portfolio that includes choices of sterility, well shape, well-bottom geometries, and

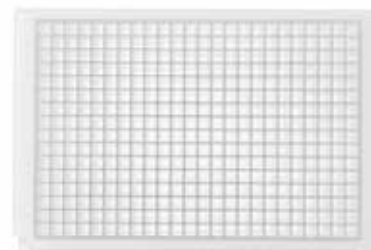
volumes that are ideally suited to your needs. No matter what plate you choose, you can be assured of high quality and performance for even the most demanding applications, such as drug discovery, molecular biology, and genomics.



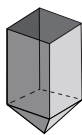


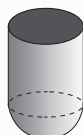
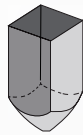
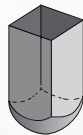

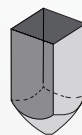
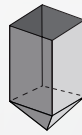
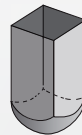
48-well



96-well



384-well

Available sterility choices		
<ul style="list-style-type: none"> Clean room certified Human DNA-free DNase-, RNase-, PCR inhibitor-free 	<ul style="list-style-type: none"> Clean room certified Human DNA-free DNase-, RNase-, PCR inhibitor-free Endotoxin-free Sterile Non-sterile 	<ul style="list-style-type: none"> Clean room certified Human DNA-free DNase-, RNase-, PCR inhibitor-free Endotoxin-free Sterile Non-sterile
Available well shapes		
Rectangular	<ul style="list-style-type: none"> Round Square 	<ul style="list-style-type: none"> Round Square
Available well-bottom geometries		
Square Well  Pyramidal	<div> Round Well  V-conical </div> <div> Round Well  V-spindle </div> <div> Round Well  U Bottom </div> <div> Square Well  V-conical </div> <div> Square Well  U Bottom </div>	<div> Round Well  V-spindle </div> <div> Square Well  V-conical </div> <div> Square Well  Pyramidal </div> <div> Square Well  U Bottom </div>
Available well-bottom geometries		
6000µL	200µL–2200µL	55µL–254µL
Brands		
Abgene	<ul style="list-style-type: none"> Nunc Abgene 	<ul style="list-style-type: none"> Nunc Abgene

48+96 DeepWell Plates

Catalog number	No. of Wells	Max Well volume (μL)	Color	Sterility	Well Shape	Well Bottom	Compatible CapMat	Human DNA Free	PCR Inhibitor Free	QTY per Pack	QTY per Case
AB-0988	48	6000	Natural	Cleanroom	Rectangular	Pyramidal		•	•	50	50
AB-0661	96	2200	Natural	Cleanroom	Square	U	AB-0675	•	•	1	50
AB-0788	96	2200	Natural	Cleanroom	Square	U	AB-0675	•	•	50	50
AB-0932	96	2200	Natural	Cleanroom	Square	V-Conical	AB-0675	•	•	1	50
AB-0932/G	96	2200	Green	Cleanroom	Square	V-Conical	AB-0675	•	•	1	50
AB-0932/P	96	2200	Purple	Cleanroom	Square	V-Conical	AB-0675	•	•	1	50
AB-0932/W	96	2200	White	Cleanroom	Square	V-Conical	AB-0675	•	•	1	50
4221	96	2000	Natural	Non-Sterile	Square	U	4421, 4422			40	40
4222	96	2000	Natural	Sterile	Square	U	4421, 4422			40	40
278743	96	2000	Natural	Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011	•	•	1	60
278752	96	2000	Natural	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011	•	•	6	60
95040452	96	2000	Natural	Non-Sterile	Square & Round	V-Conical	9503230, 9503233			5	50
95040462	96	2000	Natural	Sterile	Square & Round	V-Conical	9503230, 9503233			5	50
260251	96	1300	Natural	Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011	•	•	5	50
260252	96	1300	Natural	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011	•	•	5	50
AB-0564	96	1200	Natural	Cleanroom	Round	U	AB-0566, AB-0566/SP, AB-0674	•	•	1	50
AB-0787	96	1200	Natural	Cleanroom	Round	U	AB-0566, AB-0566/SP, AB-0674	•	•	50	50
AB-0787/G	96	1200	Green	Cleanroom	Round	U	AB-0566, AB-0566/SP, AB-0674	•	•	50	50
AB-1127	96	1200	Natural	Cleanroom	Square	U	AB-0675	•	•	1	50
4211-11	96	1000	Natural	Non-Sterile	Round	U	4411-11, 4412-11			40	40
4212-11	96	1000	Natural	Sterile	Round	U	4411-11, 4412-11			40	40
AB-0765	96	800	Natural	Cleanroom	Round	V-Conical	AB-0566, AB-0566/SP, AB-0674	•	•	1	50
AB-0765/R	96	800	Red	Cleanroom	Round	V-Conical	AB-0566, AB-0566/SP, AB-0674	•	•	1	50
AB-0765/Y	96	800	Yellow	Cleanroom	Round	V-Conical	AB-0566, AB-0566/SP, AB-0674	•	•	1	50
AB-0859	96	800	Natural	Cleanroom	Round	V-Conical	AB-0566, AB-0566/SP, AB-0674	•	•	50	50
AB-0859/G	96	800	Green	Cleanroom	Round	V-Conical	AB-0566, AB-0566/SP, AB-0674	•	•	50	50

96 Well Xtreme DeepWell Plates for Steel Bead Extraction

Catalog number	No. of Wells	Max Well volume (μL)	Color	Sterility	Well Shape	Well Bottom	Compatible CapMat	Human DNA Free	PCR Inhibitor Free	QTY per Pack	QTY per Case
AB-5564	96	1200	Natural	Cleanroom	Round	U	AB-0566, AB-0566/SP, AB-0674	•	•	1	50
AB-5788	96	2200	Natural	Cleanroom	Square	U	AB-0675	•	•	50	50

96 MicroWell Plates

Catalog number	No. of Wells	Max Well volume (μL)	Color	Sterility	Well Shape	Well Bottom	Compatible CapMat	Human DNA Free	PCR Inhibitor Free	QTY per Pack	QTY per Case
267245	96	500	Natural	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011			10	120
267334	96	500	Natural	Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011			10	120
267342	96	500	Black	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011			10	120
267350	96	500	White	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011			10	120
267385	96	500	Blue	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011			10	120
267407	96	500	Yellow	Non-Sterile	Round	U	276000, 276002, 276003, 276004, 276005, 276011			10	120
249943	96	450	Red	Non-Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
249944	96	450	Natural	Non-Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
249945	96	450	Black	Non-Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
249946	96	450	Natural	Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
249947	96	450	Yellow	Non-Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
249949	96	450	White	Non-Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
249950	96	450	Blue	Non-Sterile	Round	V-Conical	276000, 276002, 276003, 276004, 276005, 276011			20	120
AB-0796	96	330	Natural	Cleanroom	Round	U	AB-0566, AB-0566/SP, AB-0674	•	•	100	100
442587	96	300	Natural	Non-Sterile	Round	V-Conical				5	60
AB-1058	96	200	Natural	Cleanroom	Round	V-Spindle	PCR Cap Strips	•	•	100	100





384 DeepWell and MicroWell Plates

Catalog number	No. of Wells	Max Well volume (μL)	Color	Sterility	Well Shape	Well Bottom	Human DNA Free	PCR Inhibitor Free	QTY per Pack	QTY per Case
269390	384	252	Natural	Cleanroom	Square	U	•	•	5	60
AB-1178	384	250	Natural	Cleanroom	Square	V-Conical	•	•	10	50
264573	384	120	Natural	Non-Sterile	Square	U			20	120
264574	384	120	Natural	Sterile	Square	U			20	120
264575	384	120	White	Non-Sterile	Square	U			20	120
264576	384	120	Black	Non-Sterile	Square	U			20	120
264579	384	120	Blue	Non-Sterile	Square	U			20	120
AB-0781	384	120	Natural	Cleanroom	Square	Pyramidal	•	•	10	50
267460	384	58	Natural	Sterile	Square	U			25	100
267461	384	58	Black	Non-Sterile	Square	U			25	100
267462	384	58	White	Non-Sterile	Square	U			25	100
AB-1056	384	55	Natural	Cleanroom	Round	V-Spindle	•	•	10	50

Sample processing and storage plate closures

Versatile sealing options

A range of Thermo Scientific caps, CapMats, sealing tapes, and heat seals offers reliable options for maintaining the integrity of your plate contents, allowing you to store and process your samples confidently.

Seal type	Key features	Available options
CapMats 	<ul style="list-style-type: none">Chemically resistantWithstand low temperatures to -80°CProtect contents from evaporationPrevents contamination	<ul style="list-style-type: none">PierceablePre-slitColorsSterileRound or square wellIndividual caps, strips or cap mats
Heat seals 	<ul style="list-style-type: none">Fast, secure sealingSafe for temperature-sensitive samplesDesigned for reliable performance with Thermo Scientific ALPS instruments	<ul style="list-style-type: none">PierceablePeelableFoil or clearSheets or rollsPCR- and qPCR-readyBreathable
Lids 	<ul style="list-style-type: none">Notches for quick orientationRobotic lids maximize space and ease of handling	<ul style="list-style-type: none">Lid heightCorner configurationCondensation ringsEvaporation barrierSterile
Adhesive seals (Tapes) 	<ul style="list-style-type: none">Wide range of adhesive seals for every assay, including gas permeable and sterile applicationsEffective for all microplate formatsPressure-sensitive adhesive is not tacky to touch, but forms a strong bond to the plate upon application of pressureTemperature ranges from -80 to 150° C	<ul style="list-style-type: none">SterileDNase-, RNase-freeSilver, white, black or clearPCR- and qPCR-ready

We offer a range of options to seal your sample processing and storage plates, compatible with both automated and manual processes. Select the type, format, materials, and other criteria that best suit the requirements of your application and processes.



Well caps



Lids



Heat seals



Adhesive seals (Tapes)

Available formats

- | | | | |
|--|---|--|--|
| <ul style="list-style-type: none"> • CapMats • Single well caps • Row caps (strips) | <ul style="list-style-type: none"> • Flat • Cut-off corners • Condensation rings | <ul style="list-style-type: none"> • Sheets • Automation rolls | <ul style="list-style-type: none"> • Sheets • Pre-perforated rolls |
|--|---|--|--|

Plate compatibility

- | | | | |
|---|---|-----|-----|
| <ul style="list-style-type: none"> • 96-well • 384-well | <ul style="list-style-type: none"> • 96-well • 384-well | All | All |
|---|---|-----|-----|

Temperature range

- | | | | |
|-----------------|----------------|------------------|-----------------|
| -80°C to +150°C | -80°C to +60°C | -120°C to +120°C | -80°C to +120°C |
|-----------------|----------------|------------------|-----------------|

Available materials

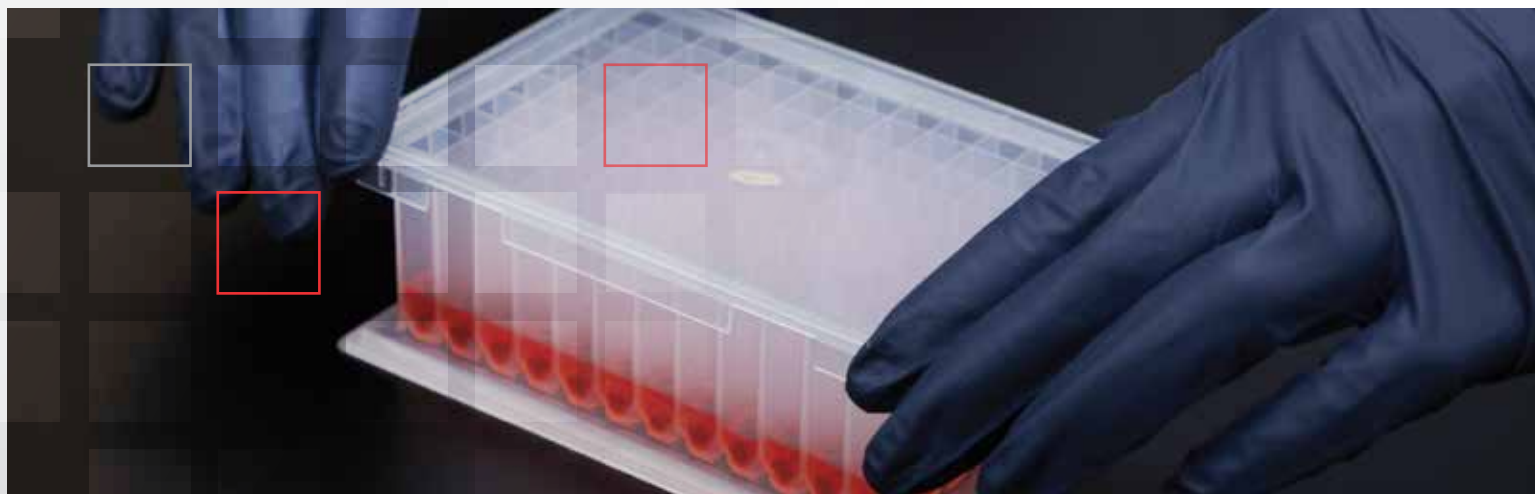
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|--|--|------------------------------|-------------------------------|
| <ul style="list-style-type: none"> • Polypropylene • TPE • Silicone | <ul style="list-style-type: none"> • Polystyrene • Polypropylene | Polypropylene adhesive layer | Acrylic and silicone adhesive |
|--|--|------------------------------|-------------------------------|

Applications

- | | | | |
|--|--|--|---|
| <ul style="list-style-type: none"> • Long-Term Storage • Short-Term Storage • Automated Assays • Sample Protection • Incubation • Drug Discovery | <ul style="list-style-type: none"> • Automated Assays • Sample Protection • Incubation • ELISA • Cell Culture | <ul style="list-style-type: none"> • Long-Term Storage • Short-Term Storage • Automated Assays • Sample Protection • Incubation • PCR and qPCR • Drug Discovery | <ul style="list-style-type: none"> • Long-Term Storage • Short-Term Storage • Automated Assays • Sample Protection • Incubation • PCR and qPCR • Drug Discovery • ELISA • Cell Culture |
|--|--|--|---|

Adhesive Seals

Catalog number	Material/Adhesive	Application	Color	Sterile	Pierceable	Certified RNase/DNase-free	Temp. Range	No. per Pack/Case
AB-0580	PVC Coated Polypropylene/Acrylic	Basic plate seal	Clear				-40°C to +80°C	100
AB-0718	Polypropylene/Acrylic	Gas permeable	Natural				-20°C to +80°C	50
3501	Polyester/Acrylic	Short-term storage, ELISA	Clear				-40°C to +120°C	100
5701	Polyester/Acrylic	Short-term storage, ELISA	Clear				-40°C to +120°C	100
232698	Aluminum/Acrylic	PCR and storage in 96-well plates	Foil		•	•	-80°C to +120°C	100
232699	Aluminum/Acrylic	PCR and storage in 384-well plates	Foil		•	•	-80°C to +120°C	100
232701	Polypropylene/Acrylic	Low autofluorescence; DMSO compatible; microscopy	Natural		•	•	-70°C to +100°C	100
232702	Polypropylene/Acrylic	PCR; fluorescence assays; microscopy	Natural			•	-70°C to +100°C	100
235306	Polyethylene/Acrylic	Repeated piercing; low autofluorescence	Clear				-40°C to +90°C	100
235307	Polyolefin/Silicone	qPCR, long-term storage, crystallography, HPLC	Clear			•	-80°C to +105°C	100
236272	Vinyl/Acrylic	Luminescence, photosensitive samples	White				-40°C to +80°C	50
236366	Polyester/Acrylic	Cell culture; sterile applications	Clear	•			-40°C to +120°C	200/800
236370	Polyester/Acrylic	General purpose; sample detection	Clear				-40°C to +120°C	100
236703	Black Vinyl/Acrylic	Fluorescence, photosensitive samples	Black				-40°C to +80°C	50
236707	Polyester/Acrylic	Convenient roll dispenser; general purpose	Clear				-40° to +120°C	1000
241205	Non-woven Rayon/Acrylic	Breathable; cell culture	White	•	•		-20°C to +80°C	25/50
249720	Non-woven Rayon/Acrylic	Breathable	White		•		-20°C to +80°C	50
276014	Aluminum/Acrylic	Chemically resistant, PCR, long-term storage	Foil		•	•	-80°C to +120°C	100



CapMats

Catalog number	Color	Sterility	Compatible Plate	Cutoff Corners	QTY per Case
4421	Natural	Non-Sterile	4221, 4222	A12 Corner	10
4422	Natural	Sterile	4221, 4222	A12 Corner	10
276000	Natural	Sterile	Nunc Shared Well Plates	Long Side	50
276002	Natural	Non-Sterile	Nunc Shared Well Plates	Long Side	50
276005	Blue	Non-Sterile	Nunc Shared Well Plates	Long Side	50
276011	Natural	Non-Sterile	Nunc Shared Well Plates	Long Side	50
9503230	Natural	Non-Sterile	95040452, 95040462	H12 Corner	50
9503233	Natural	Sterile	95040452, 95040462	H12 Corner	50
4411-11	Natural	Non-Sterile	4211-11, 4212-11	A12 Corner	10
4412-11	Natural	Sterile	4211-11, 4212-11	A12 Corner	10
AB-0566	Natural	Cleanroom	AB-0564, AB-0765, AB-0787, AB-0796, AB-0859	H1 Corner	50
AB-0566/SP	Natural	Cleanroom	AB-0564, AB-0765, AB-0787, AB-0796, AB-0859	H1 Corner	50
AB-0674	Natural	Cleanroom	AB-0564, AB-0765, AB-0787, AB-0796, AB-0859	H1 Corner	50
AB-0675	Natural	Cleanroom	AB-0661, AB-0788, AB-0932, AB-1127	H1 Corner	50
AB-1176	Natural	Cleanroom	AB-1056 (384 well plate)	H1 Corner	50

Lids

Catalog number	Color	Sterility	Compatible Plate	Cutoff Corners	Condensation Rings	Evaporation Rim	Height	QTY per Case
250002	Clear	Sterile	All Plates				8.34mm	60
250003	Clear	Non-Sterile	All Plates				8.34mm	60
250005	Clear	Non-Sterile	All Plates				8.34mm	180
253623	Clear	Non-Sterile	All Plates			•	4.6mm	100
253624	Clear	Sterile	All Plates			•	4.6mm	100
263339	Clear	Non-Sterile	96 Nunc Plates	Long Side	•	•	7.9mm	100
264122	Clear	Sterile	96 Nunc Plates	Long Side	•	•	7.9mm	50
264611	Clear	Sterile	384 Nunc Plates	Long Side		•	7.9mm	60
264612	Clear	Non-Sterile	384 Nunc Plates	Long Side		•	7.9mm	180
264616	Clear	Sterile	384 Nunc Plates	Long Side		•	7.9mm	180
264623	Clear	Sterile	96 Nunc Plates	Long Side	•	•	7.9mm	60

Plate sealing at your fingertips

Heat sealing provides an extra level of security over sticky adhesive and cap mats due to the uniformity of sealing. Microplates are designed with a raised rim around each well that enables bonding of seal to well.



ALPS5000



ALPS3000



ALPS 50V

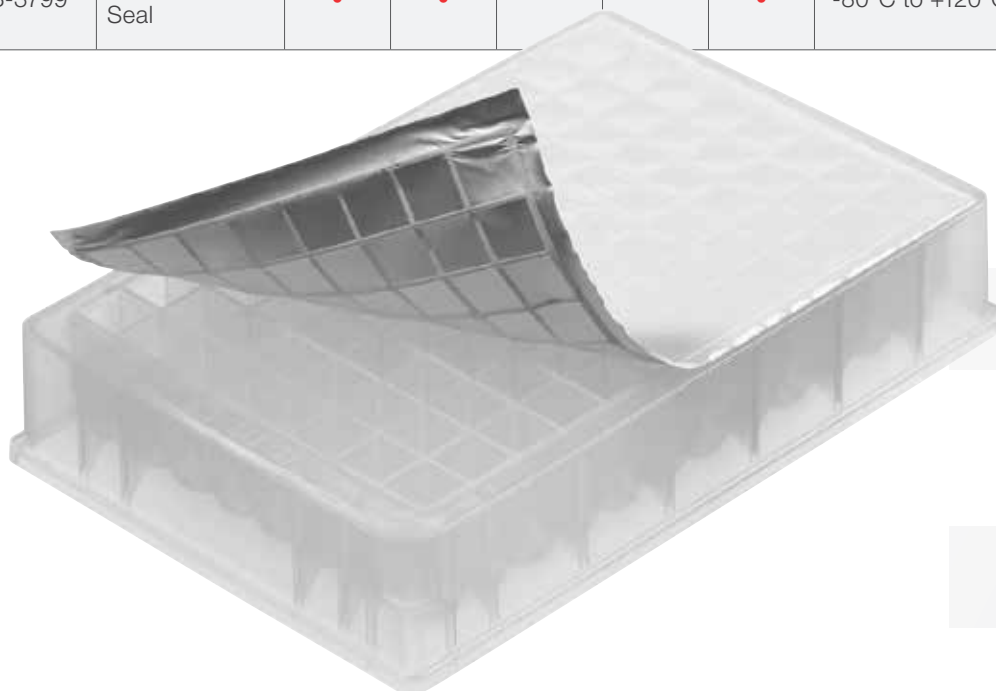
Cat. No.	AB-5000	AB-3000	AB-1443A
Sealing Parameters			
Temp Max	199°C	200°C	200°C
Time Max	9.9s	4.0s	9s
Seal Length	119-128mm	119mm	Precut Sheets
Force	5-50kg	80kg	
Distance	10-50µm		
Seals per Minute	2	6	
Plate height	8-46mm	8-46mm	14-46mm
Environmental Parameters			
Walk-up Use	Yes	Yes	Yes
Integrated Use	Yes	Yes	
External Air Need	None	50LPM @80psi	None
Weight	25kg	12kg	7.2kg

Heat Seals, Single Sheets for use with ALPS 50V

Catalog Number	Product Name	qPCR	DMSO	Pierce	Peel	PCR	Storage Temperatures	Compatible Materials	Sheet Size	No. per case
AB-0559	Thermo-seal		•		•	•	-80°C to +120°C	Polypropylene	80x125mm	100
AB-0757	Easy Pierce			•	•	•	-80°C to +120°C	Polypropylene Polyethylene	80x125mm	100
AB-1720	Easy Pierce 20µm			•	•	•	-80°C to +120°C	Polypropylene Polyethylene	80x125mm	100
AB-0745	Easy Peel		•		•	•	-200°C to +90°C°	Polypropylene Polyethylene Cyclic Olefin Copolymer	80x125mm	100
AB-1797	Clear Seal	•		•	•	•	-80°C to +120°C	Polypropylene Polyethylene Polystyrene	80x125mm	1000
AB-0812	Clear Diamond Seal	•	•			•	-80°C to +120°C	Polypropylene Polyethylene Polystyrene	80x125mm	100
AB-0685	Clear Seal Strong	•	•			•	-80°C to +110°C	Polypropylene	78x125mm	100

Automation Heat Seals, Rolls for use with ALPS5000 and ALPS3000

Catalog Number	Product Name	qPCR	DMSO	Pierce	Peel	PCR	Storage Temperatures	Compatible Materials	Roll Length
AB-3559	Thermo-seal		•		•	•	-80°C to +120°C	Polypropylene	370m
AB-3738	Easy Pierce			•	•	•	-80°C to +120°C	Polypropylene Polyethylene	610m
AB-3720	Easy Pierce 20µm			•	•	•	-80°C to +120°C	Polypropylene Polyethylene	610m
AB-3739	Easy Peel		•		•	•	-120°C to +90°C	Polypropylene Polyethylene Cyclic Olefin Copolymer	610m
AB-3797	Clear Seal	•		•	•	•	-80°C to +120°C	Polypropylene Polyethylene Polystyrene	610m
AB-3799	Clear Diamond Seal	•	•			•	-80°C to +120°C	Polypropylene Polyethylene Polystyrene	370m





Thermo Scientific ALPS5000 Automated Plate Sealer

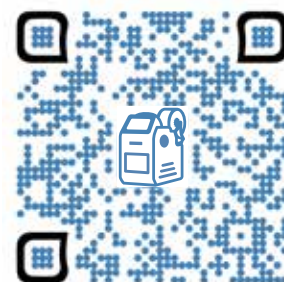
**Fast, reliable, customizable, and quiet
automated plate sealing solution for any lab**

The Thermo Scientific™ ALPS5000™ delivers the next generation in automated plate sealing equipment, efficiently sealing up to 5000 DeepWell, MicroWell, or PCR plates with a single roll of seal. The sealer's all electric operation offers a large touchscreen user interface, unprecedented parameter customization, and quiet, energy efficient operation. The ALPS5000 heat sealer has a compact footprint with seals being easily loaded without the need of tools or access to the rear of the instrument.

The ALPS5000 is flexible in application workflow being fully automated via the communications port for high-throughput diagnostic work, or easily operated via the touchscreen for benchtop applications. The touchscreen is designed to intuitively customize sealing time, temperature, and sealing mode, and allows the adjustment of foil length to optimize for peelable applications versus automation workflows.

The configurable sealing modes available with the ALPS5000 include the standard force setting, but also the novel distance mode. This new mode enables sealing of the same plate up to five times by precisely controlling the amount the melting distance of the well. With eco-mode that reduces energy use during downtime, and ability to save programs, the ALPS5000 is a purpose-built sealer that maximizes usability of the sealer across workflows and applications.

**Scan for
3D Virtual
Product Tour**



Thermo Scientific ALPS5000 Specifications

Dimension	235mm (w) x 631mm (d) x 525mm (h)
Weight	25kg
Speed	30 seconds per plate
Power Supply	110–240V AC, 50–60Hz
Air input Requirement	N/A
Vacuum source requirement	N/A
Operating temperature range	15°C to 40°C
Operating humidity range	10–80% non-condensing
Sealing plate height	8mm to 46mm
Customizable parameters	
Foil length per plate	119mm–128mm (1mm increments)
Sealing temperature range	Ambient to 199°C (in 1° increments)
Sealing time	0.5–9.9 seconds (0.1s increments)
Sealing distance	10–50µm (1µm increments)
Sealing force	5–50kg (1kg increments) Sealing temperature range



Thermo Scientific ALPS3000 Automated Plate Sealer

Fast, reliable automated plate sealing for any lab

The Thermo Scientific™ ALPS3000 is a fast and compact heat sealer designed to provide heat sealing solutions to labs ranging from low throughput to high capacity automated environments. The Thermo Scientific ALPS3000 heat sealer has a compact footprint to conserve precious bench space and top-loaded seals are easily accessible. With automated, pneumatically controlled microplate sealing, seal up to six plates per minute in a variety of hand-fed, benchtop or integrated high-throughput robotic applications.

Designed with onboard sensors to detect a microplate, heat seal and air inlet pressure the ALPS3000 heat sealer allows for completely autonomous operation while yielding minimal waste. The ALPS3000 fully automated sealer is equipped with both on-board touch screen operation for benchtop use and an RS232 port and included programming parameters for robotic integration.

Thermo Scientific ALPS 3000 Specifications

Dimension	185 mm x 414 mm x 350 mm
Weight	12kg
Speed	10 to 12 seconds per plate
Power Supply	110–240 V AC, 50–60 Hz
Air Requirement	50 liters per minute
Air Input Pressure	5.5 bar (80 PSI) to 5.7 bar (87 PSI)
Sealing Temperature Range	Ambient to 200 °C
Operating Temperature Range	15 °C to 40 °C
Sealing Plate Height	8 to 46mm

Thermo Scientific ALPS 50V Microplate Heat Sealer

The perfect entry level solution for fast and reliable semi-automated plate sealing

With the semiautomated Thermo Scientific ALPS 50V microplate heat sealer, secure tight seals around individual wells to help eliminate sample loss through evaporation and cross contamination between wells.

Choose from a wide range of heat seals, including pierceable, optically clear, and permanent, for any application. Simple on-board touchpad controls adjust sealing temperature and time. Coupled with an audible alarm indicating sealing completion, the ALPS 50V sealer provides optimal sealing control and helps ensure consistency.

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



Thermo Scientific ALPS 50V Specifications

Dimension	220 mm x 321 mm x 425 mm
Weight	15.9 lbs/ 7.2 kg
Temperature Set Point Range	125 °C to 200 °C in 1 °C increments
Time Set Point Range	1 to 9 seconds in 0.5 second increments
Operating Temperature Range	18 °C to 30 °C
Power Supply	110–240 V AC, 50–60 Hz

Sample processing and storage product customization and OEM partnership

Bring the power of customization to your process

Thermo Fisher Scientific is a leader in plastics and polymer engineering expertise. Many of the top-selling products offered under the Thermo Scientific brand have been in production for decades, while being subject to continuous improvement. The team behind the production and diagnostics plastics is driven to innovate: from improving product design based on customer feedback to increasing chemical compatibility or ensuring the polymers used are in line with modern science on toxicity; our experts stay ahead of industry trends.

Manufacturing services:

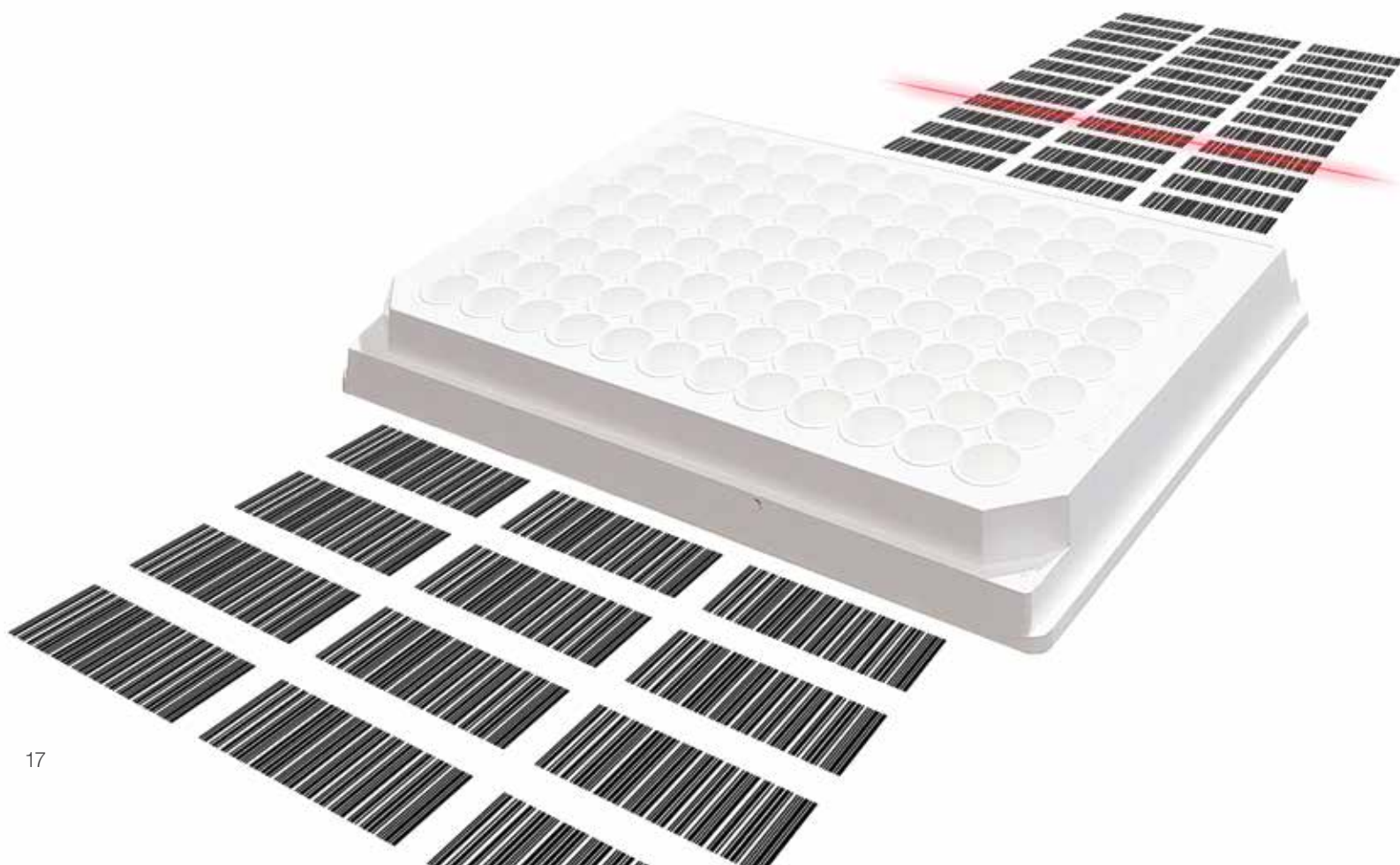
- Worldwide manufacturing and supply-chain infrastructure to sustain business in the most challenging times
- Thousands of off-the-shelf products available to fit your needs
- Injection mold design, build, and qualify on-boarding
- Products made in cleanroom, sterile and non-sterile versions
- Custom sized, slit, and packaged sealing tapes, foils and films

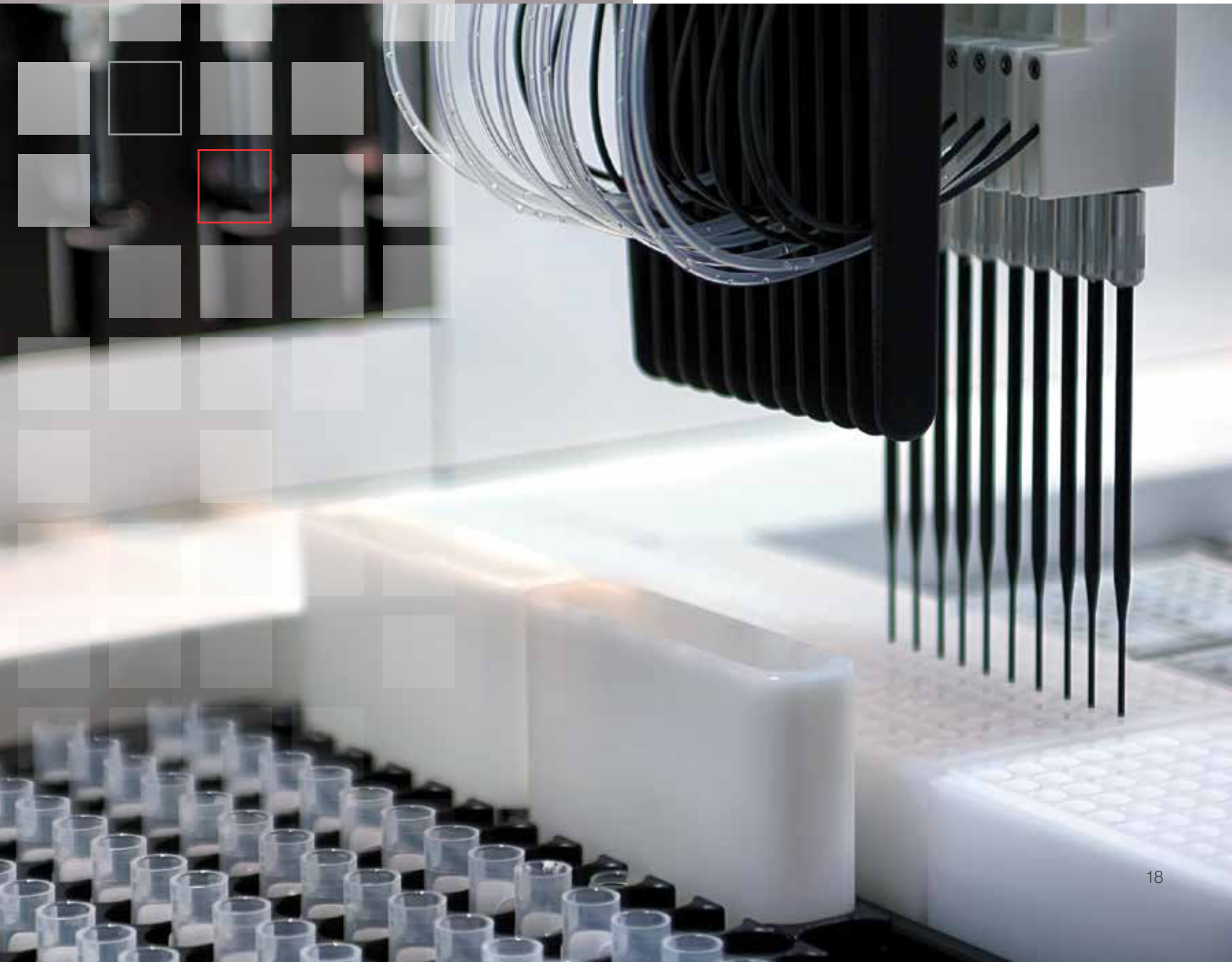
Labelling, Barcoding, and Packaging services:

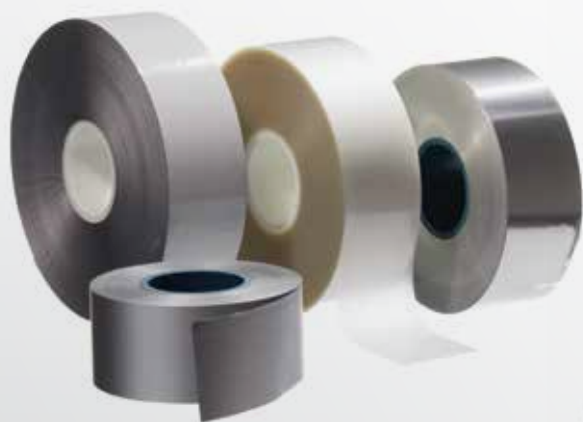
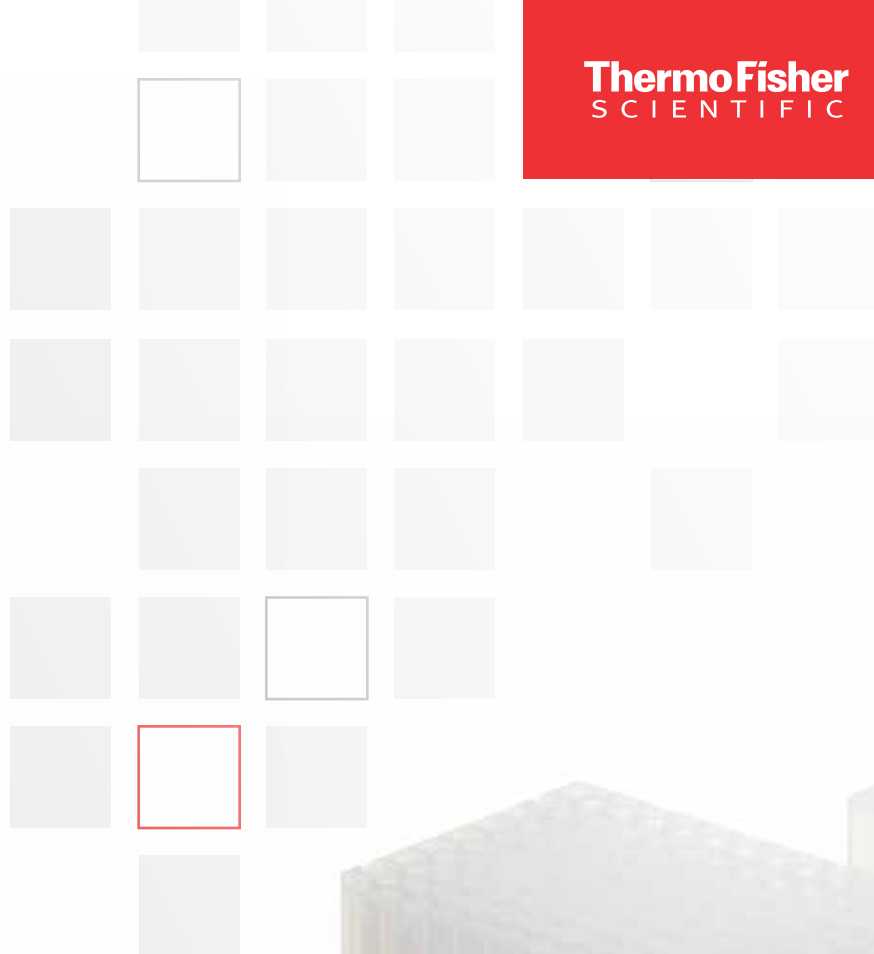
- Choose the style of code and design any additional labelling and flexible human-readable code and logo positions
- Label size, color, and position customizable according to requirements
- Barcode type and density – Full Range available
- Blank or custom logo molded into plasticware
- ISTA and Simulated altitude testing

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