The new Shandon Excelsior ES Tissue Processor continues the Thermo Electron Corporation tradition of offering one of the most advanced, traditional reagent instruments available today.

That’s why the Shandon Excelsior ES remains the instrument of choice for laboratories throughout the world who have used the proven technology to meet their most challenging tissue processing applications time after time.

With the new Shandon Excelsior ES, all of the innovative features that you have come to expect from the Shandon Excelsior are combined with new, redesigned software in a more simplified format. It makes operation easy for anyone from the first-time user to the senior laboratory technician.

With the built-in benefits of a more robust reagent cabinet, easy-view wax baths, safety, ease of use, increased productivity, and proven reagent cost savings, the Shandon Excelsior ES continues to set the standard of quality and provide consistent results for the user.

Better Software for Better Results.

• Daily Operations Mode – an easy-to-use operating mode for routine operation of the Shandon Excelsior ES.
• Daily operators may select and start a processing run or a flush cycle with one key press.
• When needed, the Menu Mode delivers all the functionality that the Shandon Excelsior ES has to offer.
• The Quality Control screen will allow the daily user to acknowledge or postpone rotation requests; approved users may also change set limits from the Menu mode.
• Access to the Menu Mode functions may be user-protected to prevent inexperienced users from changing programs or setup parameters.
• Wax bath levels may be easily viewed by simply opening the cabinet doors.

New screen displays illustrate the simplicity of the new Shandon Excelsior™ ES.

• Intuitive, easy-to-learn screens.
• Automated reagent management.
• Push-button functions for ease of daily operation.
• Simplified layout.
• Simplified QC functions.

Easy-view wax baths.

Microwavable baskets.
Proven Features of the Shandon Excelsior™ ES.

Safety.
- Built-in Downdraft Ventilation which minimizes the operators’ exposure to hazardous vapors.
- Reagent storage cabinet is built to enhance safety and is vented through 2 additional filters for further fume control.
- Specimen safety and protection is accomplished by battery back-up.
- 2 remote alarms alert the user to possible problems.
- Automatic underfill recovery finishes processing in the safest environment possible.

Ease of use.
- Automatic in-process reagent rotation.
- Easy-to-read screens with colorful graphics.
- Easy programming and operation.
- User-friendly software is like having an electronic user’s manual at your fingertips.
- International icons alert operators to anything that needs attention.

Reagent Cost Savings.
- Unique reagent monitoring and management system.
- Reagent quality of the first alcohol is measured using specific gravity and alerts operator when replacement is necessary.

Quality of Results.
- Circular design allows greater temperature uniformity.
- Continuous agitation circulates reagents freely around specimens.
- Organized basket is designed for maximum reagent infiltration around specimens by preventing cassette bunching.

Battery Back-up.
When the power fails, the Shandon Excelsior doesn’t. The Shandon Excelsior has a specially designed, built-in power backup system. When power is restored, the Shandon Excelsior will recharge so that it is ready for the next power interruption, whenever it might occur.

Shandon Excelsior Icons
A brief description of the icons.
- Alerts you to Demonstration Mode.
- Alerts you to a tripped Over Temperature Breaker.
- Alerts you that the Security Code Protection is unlocked.
- Alerts you that storage cabinet is open.
- Alerts you that the Battery Back-up is not ON.
- Alerts you to a Quality Issue.
- Alerts you to a condition that requires attention.
- Alerts you of activation of your two Remote Alarms.
- Alerts you of activation of a Nemton connection.

Shandon Excelsior™ ES Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Excelsior ES</td>
<td>A78400006</td>
</tr>
</tbody>
</table>

Physical Specifications

<table>
<thead>
<tr>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>88” x 26.5” x 31.5”</td>
<td>246.5 lbs. (112 kg)</td>
</tr>
</tbody>
</table>

Power Requirements

<table>
<thead>
<tr>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>500VA (maximum); 200VA (typical)</td>
</tr>
</tbody>
</table>

Included with Product

<table>
<thead>
<tr>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde/Peracetic Acid/Filter - Each</td>
</tr>
<tr>
<td>Vapor Filter (Charcoal) - Each</td>
</tr>
<tr>
<td>Organized Basket - 6 Supplied</td>
</tr>
<tr>
<td>Random Basket</td>
</tr>
<tr>
<td>Basket Lid (Organized and Random)</td>
</tr>
<tr>
<td>Large Black Metal Divider (for Random Basket)</td>
</tr>
<tr>
<td>Water Flush Bottle + Cap</td>
</tr>
<tr>
<td>Storage Bottles - 5 Liter (2 supplied)</td>
</tr>
<tr>
<td>Plastic Basket Carrying Container, 2.6 Qt. / 2.5 L</td>
</tr>
<tr>
<td>Glass lid - Interior of reagent storage cabinet</td>
</tr>
<tr>
<td>Glass lid - Safety Code Protection</td>
</tr>
<tr>
<td>Alert batter back-up</td>
</tr>
<tr>
<td>Alert underfill recovery</td>
</tr>
<tr>
<td>Alert for an unlocked door</td>
</tr>
<tr>
<td>Alert for storage cabinet open</td>
</tr>
<tr>
<td>Alert for a ruptured sensor</td>
</tr>
<tr>
<td>Alert for a tripped condition</td>
</tr>
<tr>
<td>Alert for security code protection</td>
</tr>
<tr>
<td>Alert for a condition requiring attention</td>
</tr>
<tr>
<td>Alert for activation of your two Remote Alarms</td>
</tr>
<tr>
<td>Alert for activation of a Nemton connection</td>
</tr>
</tbody>
</table>

Agency Approvals

Designed to meet IEC 61010, CSA, UL, and CE Mark (IVDD compliant).
Flexible Programming.
• Up to 306-cassette capacity plus the ability to add up to three extra processing modules for high throughput laboratories.
• Totally enclosed. Fumes stay within the system, and do not escape into your lab.
• Gentle counter-stir agitation and Shandon tidal flow system promotes maximum fluid penetration through baskets and cassettes for the ultimate in processing quality and consistency.
• 4 wax baths provide excellent specimen utilization.
• Circular reaction chamber optimizes temperature uniformity.
• Glass reaction chamber lid allows visual inspection of processing.
• Lid automatically locks during processing.
• Sealed reaction chamber lid is easily opened with one hand.
• Plug-in reagent bottles have color-coded labels and are engineered for ease of use.

The practical design of the Shandon Pathcentre provides a 306-cassette capacity basket plus the ability to add up to three extra processing modules for high throughput laboratories. The Shandon Pathcentre’s “Closed Loop System” ensures that fumes stay within the system and do not escape into your lab. A gentle counter-stir agitation and tidal flow system combine to promote maximum fluid penetration through baskets and cassettes for excellent processing quality and consistency. A circular reaction chamber optimizes temperature uniformity, and enhances continuous agitation. The Shandon Pathcentre is also designed to allow flexible, real-time programming for up to 9 processing programs. Simple multi-lingual programming is displayed on a back-lit LCD monitor that displays commands in English, French, Spanish, German, Italian or Swedish with full on-screen prompt graphics. A user can decide between selectable processing parameters including heat, vacuum / pressure, immersion time, drain time and agitation. A built-in clock enables selection of immediate-start or delayed-start functions for overnight, weekend, and holiday periods. It can be programmed up to 7 days in advance.

The Shandon Pathcentre’s “Closed Loop System” captures fumes from reagents inside the instrument. On-screen graphics guide the user through program commands. The screen displays the current status of the procedure.

In the state-of-the-art reaction chamber, reagent circulates freely around specimens.

Specimen Safety.
• Automatic underfill recovery system protects your reagents and automatically rerouting reagents and completing processing.
• Independent, selectable flushes – either standard flush or extended flush.
• Water rinse option can be selected at the end of flush.
• Audible and remote alarm signals are standard.
• Hard copy print-out of records including programs, processing times and real-time events is available when connected to a parallel 80-column printer.

Quality Control
• Automatic alerts when it is time for routine maintenance and service or to change reagents.

Shandon Pathcentre® Specifications

Description | Order Number
---|---
Shandon Pathcentre Random Basket 110-120V, 50/60Hz | 75200012
Shandon Pathcentre Random Basket 220-240V, 50/60Hz | 75200011
Shandon Pathcentre Organized Basket 110-120V, 50/60Hz | 75200014
Shandon Pathcentre Organized Basket 220-240V, 50/60Hz | 75200013
Extension Unit Random Basket 110-120V, 50/60Hz | 75200017
Extension Unit Random Basket 220-240V, 50/60Hz | 75200016
Extension Unit Organized Basket 110-120V, 50/60Hz | 75200014
Extension Unit Organized Basket 220-240V, 50/60Hz | 75200013

Physical Specifications
Dimensions (H x W x D)
52” x 22” x 25” (132.1 x 55.9 x 63.5 cm)

Weight
353 lbs. (160 kg)

Power Requirements
1200W

Included with Product* | Order Number
---|---
Wax Drain Container | 75201014
Reagent Storage Bottles (22 included with unit) See Below
Reagent Bottle Caps See Below | 75201016
Tissue Basket Handle | 75201419
Wax Lid Seal | 75200041
Cassette Basket See Below | 774019
Reagent Bottle Pour Spout P13433
Spatula P09046
Operator Manual (Specify Language) A752-1015
Service Record Book A78410106
Quick-Reference Cards A750-1017
Service Manual 75210151
Printer 1241180
Printer Cable 1931002
Reagent Bottle Labels 75210152
Charcoal Filter 66110056
Extension Unit
Random Basket 220-240V, 50/60Hz | 75200111
Organized Basket 220-240V, 50/60Hz | 75200113
Random Basket 110-120V, 50/60Hz | 75200112
Organized Basket 110-120V, 50/60Hz | 75200114
Organized Basket 220-240V, 50/60Hz | 75200116
Random Cassette Basket (1 Segment) A75210192
Organized Basket (1 Segment) A75210197
Organized Cassette Basket (1 Segment) A75210198
Random Cassette Basket (1 Segment) See Below
Large Block Basket (1 Segment) 75201018
Organized Basket (1 Segment) See Below
Reagent Bottle Pour Spout P13433
Reagent Bottle Labels 75210152
Charcoal Filter 66110056
Wax Disposal Bag - 10 / Pk. 75201061
Displacement Block (Organized Basket Only) A75010197
Service Manual 75210151
Printer 1241180
Printer Cable 1931002
Bottle Connector Seals - 3 / Pk. 75210148
Displacement Block (Organized Basket Only) A75010197
Service Manual 75210151
Printer 1241180
Printer Cable 1931002
Bottle Connector Seals - 3 / Pk. 75210148
Displacement Block (Organized Basket Only) A75010197
Wax Chamber Seal - 4 / Pk. 75210149
Wax Disposal Bag - 10 / Pk. 75201061
Wax Drain Key P12648
Operator Manual (Specify Language) 75010150
Quick-Reference Cards A750-1017
Service Record Book A78410106
Shandon Pathcentre Bronze Service Plan (see page 16) 7523102PM
Shandon Pathcentre Gold Service Plan (see page 16) 75231010
Shandon Pathcentre Bronze Service Plan (see page 16) 7523107R
Shandon Pathcentre Gold Service Plan (see page 16) 75231009
Shandon Pathcentre Bronze Service Plan (see page 16) 75231009

Agency Approvals

Note: The Pathcentre reaction chamber holds three basket segments. Organized, random or large block baskets may be used in combination.

Quality Control Indicators automatically alert you when to change reagents and perform maintenance/service procedures.

On-screen graphics guide the user through program commands. The screen displays the current status of the procedure.

353 lbs. (160 kg)

Quality Control

On-screen graphics guide the user through program commands. The screen displays the current status of the procedure.

In the state-of-the-art reaction chamber, reagent circulates freely around specimens.

Specimen Safety.

Quality Control

On-screen graphics guide the user through program commands. The screen displays the current status of the procedure.

In the state-of-the-art reaction chamber, reagent circulates freely around specimens.

Specimen Safety.

Quality Control

On-screen graphics guide the user through program commands. The screen displays the current status of the procedure.

In the state-of-the-art reaction chamber, reagent circulates freely around specimens.
Shandon Citadel® Tissue Processor
Carousel-type tissue processor

Shandon Netmon™ Service
Remote monitoring system for peace of mind all of the time.

Shandon Excelsior™ Netmon

A service that directly connects the Shandon Excelsior in the customer’s laboratory to the Thermo Electron Service Support Center in Pittsburgh, U.S.A., and Runcorn, U.K. By using a dedicated telephone line at the customer site, high-value support services are made available to the user in a real-time manner.

Customized Monthly Report provides the following information:
- Four fundamental system tests:
  - Fluid transfer check
  - Peak fluid temperatures
  - Alcohol quality measurement
  - Error checks
- The signature of the service support engineer is included with the report.

- Monthly preventive maintenance review.
- Rapid on-line diagnosis and resolution of system problems.
- Escalation to service call, if required, with dispatch of needed spare parts.
- On-line technical support to resolve operational issues.

Shandon Excelsior™ Netmon at Home*

The Shandon Excelsior Netmon at Home is your way of always staying connected to your tissue processor. Shandon Excelsior Netmon at Home service allows you to dial into and control your Shandon Excelsior from the comfort of your home. If you need to check the status or respond to any error messages, you simply dial in and fix the problem without going to the lab. The Shandon Excelsior Netmon at Home is available only to Shandon Netmon customers.

Shandon Excelsior Netmon at Home Kit

CD + Manual

Shandon Excelsior Netmon at Home* Kit

CD + Manual

Agency Approvals

*Netmon is only available in the United States and United Kingdom.

Shandon Citadel® Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Citadel 1000</td>
<td>220-240V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 1000</td>
<td>220-240V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 1000</td>
<td>110-120V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 2000</td>
<td>110-120V, 50/60Hz</td>
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<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
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<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 2000</td>
<td>110-120V, 50/60Hz</td>
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<tr>
<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
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Physical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter: 27.2” x Height: 25” (68 x 62.5 cm)</td>
<td>69800001</td>
</tr>
<tr>
<td>Vacuum Unit: 7.7” H x 10.2” W x 13.4” D (19.5 x 26 x 34 cm)</td>
<td>69800002</td>
</tr>
<tr>
<td>Weight (Citadel Only): 115 lbs. (52 kg)</td>
<td>69800003</td>
</tr>
<tr>
<td>Power Requirements (Citadel Only):</td>
<td>500VA</td>
</tr>
</tbody>
</table>

Included with Product

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Citadel 2000</td>
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<tr>
<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
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<tr>
<td>Shandon Citadel 2000</td>
<td>110-120V, 50/60Hz</td>
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<tr>
<td>Shandon Citadel 2000</td>
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<tr>
<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 2000</td>
<td>110-120V, 50/60Hz</td>
</tr>
<tr>
<td>Shandon Citadel 2000</td>
<td>220-240V, 50/60Hz</td>
</tr>
</tbody>
</table>

*Netmon is only available in the United States and United Kingdom.

Shandon Excelsior Netmon at Home*

The Shandon Excelsior Netmon at Home is your way of always staying connected to your tissue processor. Shandon Excelsior Netmon at Home service allows you to dial into and control your Shandon Excelsior from the comfort of your home. If you need to check the status or respond to any error messages, you simply dial in and fix the problem without going to the lab. The Shandon Excelsior Netmon at Home is available only to Shandon Netmon customers.

Shandon Excelsior Netmon at Home Kit

CD + Manual

Shandon Excelsior Netmon at Home* Kit

CD + Manual

Agency Approvals

*Netmon is only available in the United States and United Kingdom.

Shandon Excelsior Netmon at Home*

The Shandon Excelsior Netmon at Home is your way of always staying connected to your tissue processor. Shandon Excelsior Netmon at Home service allows you to dial into and control your Shandon Excelsor from the comfort of your home. If you need to check the status or respond to any error messages, you simply dial in and fix the problem without going to the lab. The Shandon Excelsior Netmon at Home is available only to Shandon Netmon customers.

Dialing into the Shandon Excelsior using Shandon Excelsior Netmon at Home provides access to the following information:
- Status
- Progress through a processing run
- Alcohol quality measurement
- Error checks
- Other features are available; consult your representative for details.

Please contact your local Sales Representative for information about other Shandon Netmon capabilities and complete ordering information.

Agency Approvals

*Netmon is only available in the United States and United Kingdom.
The Shandon TissueWave Specimen Processing System is used for tissue fixation and processing, decalcification of hard material, routine special stains where heat would accelerate the staining process, and for epitope enhancement during immunohistochemical staining. It is designed for greater flexibility to meet the growing workload demands. This user friendly instrument will free up technical time for more complex procedures. The Shandon TissueWave will consistently deliver uniformly excellent results in a fraction of the time.

Laboratory safety is always an important consideration when purchasing equipment. The Shandon TissueWave has a ventilation system interlock that prevents the unit from operating if the unit is not properly ventilated. This prevents the unrealized possibility of dangerous and toxic fumes from accumulating.

Control of the Shandon TissueWave is monitored by two separate parameters; either by temperature or total power control. Temperature may be further defined by measuring total time (including the ramp time to achieve the correct temperature) or by the time at temperature for a particular ‘Preset’.

- Sleek, modern design.
- Ventilation system to remove dangerous and toxic fumes.
- Programmable, 40 ‘Preset’ steps that may be used to create processing and staining programs.
- Vacuum chamber for rapid fixation and paraffin infiltration.
- Temperature and power controls, ability to convert wattage protocols.
- The most accurate temperature control of any pulsed power microwave.
- One cycle/one second pulsing power mode.
- Easy to use display screen and control panel for easy programming.
- Handles RUSH specimens effectively.
- Frees up technical time for more complex procedures.
- Provides processing and warning messages throughout use.
- Temperature probe that guarantees accurate temperature control to ±1°C.
- Compatible with Shandon Excelsior™ ES Processor organized baskets.

Shandon TissueWave™ Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>Shandon TissueWave</td>
<td>B35200000</td>
</tr>
<tr>
<td>110-120V, 60Hz</td>
<td>B35200001</td>
</tr>
<tr>
<td>220-240V, 50/60 Hz</td>
<td></td>
</tr>
</tbody>
</table>

Specifications

Dimensions (H x W x D)

<table>
<thead>
<tr>
<th>Shandon TissueWave</th>
<th>Dimensions (H x W x D)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>19” x 21.5” x 24.5”</td>
</tr>
<tr>
<td></td>
<td>(48.2 x 54.6 x 62.2 cm)</td>
</tr>
</tbody>
</table>

Chamber Dimensions

<table>
<thead>
<tr>
<th>Shandon TissueWave</th>
<th>Chamber Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9.5” x 13.5” x 15.5” (24.1 x 34.3 x 39.4 cm)</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Shandon TissueWave</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>77 lbs. (169.4 kg)</td>
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</tbody>
</table>

Power Requirements

<table>
<thead>
<tr>
<th>Shandon TissueWave</th>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120V system - 15 amp service minimum (20 amp recommended)</td>
</tr>
<tr>
<td></td>
<td>230V system - 10 amp service minimum (15 amp recommended)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air agitator tubing, glass, 3/8”</td>
<td>B35240009</td>
</tr>
<tr>
<td>Shandon Excelsior ES organized basket - 2 supplied</td>
<td>B35240010</td>
</tr>
<tr>
<td>Air Adjustment screw</td>
<td>B35240009</td>
</tr>
<tr>
<td>Fan, 15A</td>
<td>B35240014</td>
</tr>
<tr>
<td>AC Input Fuse Holder</td>
<td>B35240015</td>
</tr>
<tr>
<td>Heaters</td>
<td>B35240015</td>
</tr>
<tr>
<td>Microwavable Specimen Containers, 2.6 Di. / 2.5 L</td>
<td>B35210007</td>
</tr>
<tr>
<td>Operator’s Guide</td>
<td>B35210007</td>
</tr>
<tr>
<td>Temperature Probe</td>
<td>B35240001</td>
</tr>
<tr>
<td>Vacuum Chamber, glass</td>
<td>B35210001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Excelsior ES Organized Baskets - 6 supplied</td>
<td>A78410025</td>
</tr>
<tr>
<td>Microwavable Plastic Coplin Staining Jar</td>
<td>B35210007</td>
</tr>
<tr>
<td>Microwavable Plastic Split 50ml Jar - 12/24 / 48 / Cs</td>
<td>B35210007</td>
</tr>
<tr>
<td>Plastic Staining Dish and Cover</td>
<td>B35210007</td>
</tr>
<tr>
<td>Plastic Staining Rack - 25 slide capacity</td>
<td>B35210007</td>
</tr>
<tr>
<td>Microscope Detector, hand held model</td>
<td>B35240071</td>
</tr>
<tr>
<td>Shandon TissueWave Gold Service Plan (see page 16)</td>
<td>B35200002C</td>
</tr>
</tbody>
</table>

Agency Approvals

- Designed to meet IEC 61010, CSA, UL, and CE Mark.
- ETL Listed.

Results shown using the Shandon TissueWave with Shandon Zinc Formal Fixx™ (see page 12)
## Processing Reagents
Made to bring out the best in your Shandon equipment.

### Shandon Xylene
- Clearing agent for processing, staining and coverslipping.
- A filtered, quality reagent.
- Color-coded bottle for Shandon Excelsior™.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pkg/Qt</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Xylene</td>
<td>4 L x 4</td>
<td>8990505</td>
</tr>
<tr>
<td>Shandon Xylene Substitute</td>
<td>4 L x 4</td>
<td>61790650</td>
</tr>
<tr>
<td>Shandon Xylene Substitute</td>
<td>10 L x 2</td>
<td>61790648</td>
</tr>
<tr>
<td>Shandon Xylene Substitute</td>
<td>209 L (55 gal.)</td>
<td>61790649</td>
</tr>
</tbody>
</table>

*Ready-to-use, color-coded Shandon Excelsior™ packaging.

### Shandon Reagent Alcohol
- Blend of 90%-absolute ethanol; 5%-methanol; 5%-isopropanol.
- A filtered, quality reagent.
- Use in place of absolute (100%) ethanol for most pathology procedures, including staining sequencers.
- No license required by Bureau of ATF.
- Color-coded bottle for Shandon Excelsior.

### Shandon Glyo-Fixx™
- Excellent for immunochemistry.
- The fixative of choice to enhance H&E's and special stains.
- Hyperimmune antibodies do not cross-link as formaldehyde does. It fixes most antigens without impairing their immunoreactivity.
- With Glyo-Fixx, higher antibody dilutions can be used.
- Works well with conventional special stains including silver procedures, Schmorl’s for reducing substances, PAS, Alcian blue, mucicarmine, Verheöf-Van Gieson for elastin, and trichrome.
- Allows special stain dyes to be sharp without background staining. It also presents fine detail in specimen structure.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pkg/Qt</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Reagent Alcohol</td>
<td>10 L x 1</td>
<td>6794245</td>
</tr>
<tr>
<td>Shandon Reagent Alcohol</td>
<td>20 L (65 gal.)</td>
<td>61790520</td>
</tr>
</tbody>
</table>

### Shandon Formal-Fixx™
10% Neutral Buffered Formalin
- Phosphate-free, 10% neutral buffered formalin produces consistent results, and extends life of rotary valve in tissue processors.
- Store all specimens without excessive shrinking or hardening.
- Use for storage of all tissue - eliminates presorting of EM specimens.
- Available premixed ready-to-use or in economical concentrate – just add water or alcohol.
- Concentrate is not affected by freezing, reduces shelf space and is less expensive to ship.
- Pre-filled, leak resistant cups are available.
- Caps are packed in sturdy trays for courier transport.

### Shandon Xylene Substitute
- A safer, more convenient alternative to xylene for processing, staining and coverslipping.
- Airborne exposure limit three times safer than xylene (TWA 300 ppm).
- Virtually odorless aliphatic hydrocarbon – no citrus aroma.
- Not sensitizing to normal skin.
- Evaporation rate similar to xylene – slides dry quickly.
- Greaseless.
- Can be recycled with solvent recyclers.
- Color-coded bottle for Shandon Excelsior.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pkg/Qt</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon Xylene Substitute</td>
<td>4 L x 4</td>
<td>61790646</td>
</tr>
<tr>
<td>Shandon Xylene Substitute</td>
<td>10 L x 2</td>
<td>61790648</td>
</tr>
<tr>
<td>Shandon Xylene Substitute</td>
<td>209 L (55 gal.)</td>
<td>61790649</td>
</tr>
</tbody>
</table>

### Shandon Zinc Formal-Fixx™
- Excellent for immunohistochemistry.
- The fixative of choice to enhance H&E’s and special stains.
- Minimizes the need to enzyme digest; reduces protein cross-linking; producing well defined nuclear detail.

### Shandon TBD-1™ Decalciﬁer
- Rapid hydrochloric acid decalciﬁer for processing bone marrow biopsies in as little as 15-30 minutes.
- Thin pieces of dense bone process in 3-12 hours.
- Permits utilization of routine end point tests, such as calcium oxalate.
- Added ingredients protect cells from actions of acids.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pkg/Qt</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon TBD-1</td>
<td>1 L x 2</td>
<td>6794041</td>
</tr>
<tr>
<td>Shandon TBD-1</td>
<td>1 L x 4</td>
<td>6794042</td>
</tr>
</tbody>
</table>

### Shandon TBD-2™ Decalciﬁer
- Formic acid decalciﬁer for gentle, longer term processing.
- Go up to 48 hours past end point without damaging specimens.
- Permits utilization of routine end point tests, such as calcium oxalate.
- Added ingredients protect cells from actions of acids.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pkg/Qt</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shandon TBD-2</td>
<td>1 L x 2</td>
<td>6794043</td>
</tr>
<tr>
<td>Shandon TBD-2</td>
<td>1 L x 4</td>
<td>6794044</td>
</tr>
</tbody>
</table>
### Cassettes and Capsules

**Autopsy and tissue processing cassettes.**

#### Shandon Autopsy Cassette
- Designed for handing tissue through fixation, dehydration, clearing and infiltration processes.
- Polished stainless steel top and bottom are perforated to promote reagent circulation.
- Four-partition stainless steel separator is easily removed (sold separately).
- 3" Diameter x 0.5" Depth (70 x 13 mm).

#### Shandon General Purpose Capsule
- General purpose capsule for routine or small specimens.
- Precise enclosure.
- Extra fine bottom mesh.
- Stainless steel.
- 0.98" Diameter x 0.24" Depth (25 x 6 mm).

#### Shandon Standard Cassette
- Stainless steel.
- 1.58" Diameter x 0.276" Depth (40 x 7 mm).
- Expandable to 0.43" (11 mm) depth.

#### Shandon Tissue Processing Capsule
- Free standing lugs grasp the base securely.
- Stainless steel capsule can be partitioned up to 4 sections.
- Partition separators sold separately.
- 1.46" Diameter x 0.24" Depth (37 x 6 mm).

#### Shandon Micro-Cassette
- Positive clip-on cover for micro specimen.
- All stainless steel.
- Available with fine or coarse mesh.
- 0.79" Diameter x 0.197" Depth (20 x 5 mm).

#### Shandon Large Cassette
- Flexible snap cover easily attached and removed.
- Stainless steel.
- 1.91" x 0.98" W x 0.47" D (50 mm x 25 mm x 12 mm).

#### Shandon Autopsy Tissue Capsules
- Perforated throughout for free movement of fluids.
- Snap cap provides positive enclosure.
- Stainless steel.
- 1.38" (35 mm) Diameter. Available in sizes of 1.2" (30 mm) or 2.76" (70 mm) deep.

### Paraffin

**Quality paraffins for every needs.**

Thermo-brand paraffins are quality blends of paraffin, polymers, and plastics (to varying degrees, based upon type) that not only achieve thorough tissue infiltration, but also provide maximum support during microtomy.

#### Form
- **Paraffin**
- **Paraffin Plus**
- **Paraffin X-treme**
- **Hi-Cut**

#### Additives
- **Plastic**
- **DMSO**
- **Micronovacylate**
- **Polymer**
- **Paraffin**
- **Waxes**
- **Polymers**

#### Use
- **General Purpose**
- **Enhanced Infiltration & Sectioning**
- **Thin Sectioning**
- **General Purpose**

#### Melting Point
- **50°-54°C**
- **52°-54°C**
- **56°-57°C**
- **56°-58°C**

#### Packaging
- **2.2 lbs. / Bag (2.5 kg)**
- **2.5 lbs. / Box (2.5 kg)**
- **6.5 lbs. / Bag (4.5 kg)**
- **22 lbs. / Bag (20 kg)**

#### Order No.
- **6774060**
- **6774006**
- **8240209**
- **674926**

#### Shandon Microsette®
- Biopsy Cassettes
- Tissue Cassettes

#### Shandon Microscope® Biopsy Cassettes
- 0.56" x 0.26" (14 x 6 mm) Compact
- 0.56" x 0.25" (14 x 6 mm) Standard

#### Shandon Microscope™ Biopsy Cassettes
- 0.36" diameter
- 0.38" diameter

#### Shandon Small Wax Blocks
- 0.36" diameter
- 0.38" diameter

#### Additional Information
- *May be labeled on the Shandon Microsette™ Biopsy Cassettes with the lids on.*
Downtime equals wasted time.

At Thermo Fisher Scientific Anatomical Pathology we understand the importance of maintaining an efficient laboratory and happy technicians. No matter what your service requirements are, Thermo Fisher has a solution that can keep you working at peak efficiency.

- Flexible programs to meet your workflow and laboratory needs.
- Our factory-trained technicians are conveniently located throughout the country and have years of experience servicing our equipment.
- Only original factory parts are used for repair and maintenance.
- We provide 24/7/365 phone support (U.S. only).
- Technical hotline service available.

All equipment is provided with a one year parts and labor manufacturer’s warranty. Additional programs can be purchased at the time of purchase of the instrument or prior to the expiration of the Bronze plan.

Our Platinum Plan* (One year term)
- Covers replacement parts necessary for repairs
- Covers cost of repair and travel labor
- Repairs performed either on-site or at Thermo Fisher Scientific
- Includes one annual preventative maintenance (PM)
- If requested, loaner instrumentation will be provided at no charge if the instrument cannot be repaired within five days of notification
- All shipping charges are covered for the instrument when applicable
- Guaranteed response time of 24 hour on repairs (weekdays)

Our Gold Plan* (One year term)
- Covers replacement parts necessary for repairs
- Covers cost of repair and travel labor
- Repairs performed either on-site or at Thermo Fisher Scientific
- Includes one annual preventative maintenance (PM)
- If requested, loaner instrumentation will be provided at no charge if the instrument cannot be repaired within five days of notification
- All shipping charges are covered for the instrument when applicable

Our Silver Plan* (One year term)
- Covers replacement parts necessary for repairs
- Covers cost of repair and travel labor
- Repairs performed either on-site or at Thermo Fisher Scientific
- All shipping charges are covered for the instrument when applicable
- Includes one annual preventative maintenance (PM)

* Produce Support Agreements vary in different countries.