For every clinical situation, 3M ESPE offers a polyether or VPS impression material to suit your technique and procedure. Choose from a wide range of viscosities and set/working times. All 3M ESPE Penta™ products can be automatically mixed in the Pentamix™ System*

### Ordering Information

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Product Information</th>
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<tbody>
<tr>
<td>77871</td>
<td>Pentamix™ 3 Automatic Mixing Unit &amp; Accessories</td>
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<tr>
<td>77872</td>
<td>Pentamix™ 3 – 230 V Western Europe</td>
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<tr>
<td>77873</td>
<td>Pentamix™ 3 – 230 V GB</td>
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<tr>
<td>77801</td>
<td>Wall-Mount Kit Pentamix™ 3</td>
</tr>
<tr>
<td>71512</td>
<td>Penta™ Mixing Tips red</td>
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<td>77760</td>
<td>Plunger Discs, 1 pair</td>
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<tr>
<td>71210</td>
<td>Elastomer Syringe Kit</td>
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</table>

#### Impression Materials Intro Kits

- **P31734** Impregum™ Penta™ Soft Intro Kit
  - 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ Soft cartridge, 10 Penta™ Mixing Tips red, 1 Penta™ elastomer syringe, 3 bottle polyether adhesive – 17 ml

- **P31770** Impregum™ Penta™ Soft Quick Intro Kit
  - 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ Soft Quick cartridge, 10 Penta™ Mixing Tips red, 1 Penta™ elastomer syringe, 1 bottle polyether adhesive – 17 ml

- **P31864** Impregum™ Penta™ Intro Kit
  - 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ cartridge, 10 Penta™ Mixing Tips red, 1 Penta™ elastomer syringe, 1 bottle polyether adhesive – 17 ml

- **P31722** Impregum™ Penta™ H DuoSoft Quick Intro Kit
  - 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ H DuoSoft cartridge, 10 Penta™ Mixing Tips red, 2 Garant™ cartridges – 50 ml each, 10 Garant™ Mixing Tips white, 10 Garant™ Extraoral Tips white, 1 bottle polyether adhesive – 17 ml

- **P36896** Express™ 2 Penta™ Putty Soft Intro Kit
  - 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Express™ 2 Penta™ Putty Soft cartridge, 10 Penta™ Mixing Tips red, 1 Express™ 2 Penta™ Light Body Flow cartridge – 50 ml, 1 Express™ 2 Light Body Standard cartridge – 50 ml, 10 Garant™ Mixing Tips yellow, 10 Garant™ Extraoral Tips yellow, 1 VPS tray adhesive

- **P36815** Express™ 2 Penta™ Pussy Intro Kit
  - 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Express™ 2 Penta™ Pussy cartridge, 10 Penta™ Mixing Tips red, 1 Express™ 2 Ultra-Light Body Quick cartridge – 50 ml, 1 Express™ 2 Light Body Flow Quick cartridge – 50 ml, 10 Garant™ Mixing Tips yellow, 10 Garant™ Extraoral Tips yellow, 1 VPS tray adhesive

#### Cartridges

- **P3811** Express™ 2 Penta™ H Cartridge
- **P3812** Express™ 2 Penta™ H Quick Cartridge
- **P3813** Express™ 2 Penta™ Pussy Cartridge
- **P3814** Express™ 2 Penta™ H Universal Quick Cartridge
- **P3681** Position™ Penta™ Cartridge
- **P3682** Ramiite™ Penta™ Cartridge
- **P3683** Position™ Penta™ Quick/Position™ Tray Intro Kit
- **P3684** Position™ Penta™ Quick/Position™ Tray Intro Kit
- **P3687** Impregum™ Penta™ Soft Cartridge
- **P3775** Impregum™ Penta™ Soft Quick Cartridge
- **P3792** Impregum™ Penta™ Cartridge
- **P3793** Impregum™ Penta™ H DuoSoft Cartridge
- **P3773** Impregum™ Penta™ H DuoSoft Quick Cartridge
- **P3795** Impregum™ Penta™ L DuoSoft Cartridge
- **P3811** Express™ 2 Penta™ H Cartridge
- **P3815** Express™ 2 Penta™ Putty Soft Cartridge
- **P3813** Express™ 2 Penta™ Pussy Cartridge
- **P3814** Express™ 2 Penta™ H Universal Quick Cartridge
- **P3681** Position™ Penta™ Cartridge
- **P3682** Ramiite™ Penta™ Cartridge

*Compatibility with standard mixing units from other manufacturers guaranteed.*

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**Impression Solutions**

**Pentamix™ 3**

**Automatic Mixing Unit**

**Extremely quick**

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02 (12.2008)

3M ESPE AG
ESPE Place
82299 Seefeld · Germany
E-Mail: info3mespe@3m.com
Internet: www.3mespe.com
3M ESPE – Successful impressioning solutions.

Taking precision impressions is a critical step in providing high-quality restorations for patients. As the worldwide leader in impressioning, 3M ESPE is renowned for its dedication to quality and its innovative products.

Since the introduction of the first impression materials more than 40 years ago, 3M ESPE innovations have continuously advanced impression technology. These innovations did not apply only to the impression materials as such, but also focused on the handling and robustness of the dosing and mixing processes.

Since 1993, the 3M ESPE Pentamix™ System, which makes it faster and easier to automatically mix and dispense impression materials, has proven itself thousands of times amongst dentists throughout the world.

With the third-generation Pentaxix™ 3 Automatic Mixing Unit – 3M ESPE now takes impression making to the next level in terms of mixing accuracy and convenience.

The Penta™ System – designed to ensure a trouble-free workflow and consistently first-rate quality.

For optimal performance and high-quality mixing results, the Pentamix system and the whole spectrum of 3M ESPE Penta™ impression materials have been specifically created to work successfully with each other.

All other Penta™ products like the steel-reinforced Penta™ Cartridges and the redesigned Penta™ Foil Bags with Penta™ Authentication Label ensure safety, reliability and genuine 3M ESPE quality.

You + 3M ESPE =

Experience the speed, convenience and accuracy of mixing impression materials with the new Pentamix™ 3 Automatic Mixing Unit. With the touch of a button, it delivers a completely homogeneous and void-free mix for highly accurate impressions and perfectly fitting restorations. The Pentamix™ 3 Mixing Unit gives you ultimate procedure efficiency and high-quality mixtures. And because it’s fully automatic, it reduces strain on you and your assistants, too.

Benefits of automatic mixing:
- Fast, time-saving procedure and push-button activation.
- Homogeneous and void-free mixtures of reproducible quality.
- Economical and exact dispensing of material.
- Hygienic direct filling of trays and syringes.
- More efficient workflow and higher productivity.

Take the strain and uncertainty out of mixing impression materials.

Experience the speed, convenience and accuracy of mixing impression materials with the new Pentamix™ 3 Automatic Mixing Unit. With the touch of a button, it delivers a completely homogeneous and void-free mix for highly accurate impressions and perfectly fitting restorations. The Pentamix™ 3 Mixing Unit gives you ultimate procedure efficiency and high-quality mixtures. And because it’s fully automatic, it reduces strain on you and your assistants, too.

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- More efficient workflow and higher productivity.

Extremely quick – The new Pentamix™ 3 Automatic Mixing Unit.

• Dispenses Penta™ Materials, even putty, twice as fast as its predecessor Pentamix™ 2 and faster than any other automatic mixing unit.
• Faster mixing and tray filling means longer working time – which lets you work with quick-setting materials more often.
• Saves valuable counter space with the smallest footprint on the market – wall-mounting option included.
• Handles easier and more convenient with one-button operation from both sides of the unit, and an easier cartridge exchange.
• Contemporary and robust design.
• Suitable for polyether, VPS and alginate replacement materials.
With the Pentamix™ 3, you get what it takes: speed, comfort and precision.

High speed — Gain more working time with the fastest mixer worldwide.

The Pentamix™ 3 Automatic Mixing Unit mixes and dispenses all your favourite 3M ESPE impression materials — even putty — twice as fast as its predecessor Pentamix™ 2 and faster than any automatic mixing unit on the market. By cutting your mixing and tray-filling time in half, it gives you more working time to make an accurate impression and reduces the stress for you and your assistants. Plus, it enables you to work with quick-setting materials.

Dispensing rate in ml/min

<table>
<thead>
<tr>
<th>Material</th>
<th>Pentamix™ 3</th>
<th>Pentamix™ 2</th>
<th>Duomix®</th>
<th>MixStar® -eMotion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 20 40 60 80 100 120 140 160</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product name and working/setting times are visible, even when the device cover is closed

Convenient gauge allows you to see when the material in the cartridge is getting low without opening the device cover

Ease of use — Experience comfortable high-tech design.

Penta™ Cartridges that display material name and working/setting times, an effortless cartridge exchange, easy-to-attach mixing tips as well as an optimized design allowing ambidextrous operation make the device handling easier and more convenient — a contemporary and robust high-tech design included.

Ease to use

Easy cartridge exchange

Easy-to-attach mixing tip without opening device cover

Push-buttons on left and right side allow for ambidextrous operation

Small size — Save valuable counter space.

With the smallest footprint on the market, the Pentamix™ 3 Automatic Mixing Unit lets you save valuable counter space in your practice. Whether you are working with limited space or just want to completely free up your counter, the wall-mounting option offers the ideal solution.

Contemporary sleek design

Top Speed
Impregum™
Polyether Impression Material

With Impregum™ Penta™/Penta™ Soft Polyether Impression Materials, utmost precision on the first take has become even faster and more convenient. The Penta Soft “Quick” version in particular cuts working and setting times by at least 33%. Designed for the monophase technique, Impregum Penta/ Penta Soft materials can be automatically mixed with the Pentamix™ System.

Indications:
- Crown, bridge, in-, onlay impressions
- Implant impressions

Portfolio:
- 3 Penta™ Materials for automatic mixing in the Pentamix™ System (regular- or fast-setting)
- Fast-setting Quick version for 1 – 2 unit cases
- Single viscosity for tray and syringe
- Additional Impregum™ Materials available

Recommended by dental labs
High-detail reproduction is extremely important for dental labs’ work. According to two recent surveys in Europe and the U.S., the majority of the involved labs that make recommendations about impression materials recommend Impregum™ Polyether Material from 3M ESPE.

Precise and void-free impressions
Due to its initial hydrophilicity, Impregum Polyether Material displaces moisture right from the first contact with tissue and provides void-free impressions in moist environments. Moreover, the excellent flow properties during the working time reliably contribute to recording the finest details – even in challenging clinical situations.

Constant flow and less distortions
The material’s unique “snap-set” behaviour provides constant flow properties during the working phase and less distortions.

Minty flavour and easy removal
“Soft” materials offer a fresh minty taste and allow for easier removal from the mouth – both enhancing patients’ comfort notably.

Perfect for implant impressions
Impregum Polyether Material is designed for excellent performance and detail reproduction for precise implant impressions.

Impression Materials – Overview Penta™ Products

<table>
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<th>IMPRESSION TECHNIQUE</th>
<th>Impression Materials</th>
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<tr>
<td>Monophase Technique</td>
<td>Impregum™ Penta™ Soft</td>
<td>Crown, Bridge, Inlay/Onlay, Implant impressions</td>
</tr>
<tr>
<td></td>
<td>Impregum™ Penta™ Soft Quick</td>
<td>Crown, Bridge, Inlay/Onlay, Implant impressions</td>
</tr>
</tbody>
</table>

- POLYETHER IMPRESSION MATERIALS

- VPS IMPRESSION MATERIALS

- ALGINATE INDICATION MATERIALS
Express™ 2
VPS Impression Material

Extremely well balanced

The next generation of VPS materials sets the stage for outstanding impression accuracy on the first take and a perfect fit of the restoration. Convenient handling guaranteed: all Express™ 2 Penta™ Tray Materials can be mixed and dispensed with the Pentamix™ 3 Automatic Mixing Unit from 3M ESPE.

Outstanding balance of properties
Express 2 VPS materials perform where it really counts: their clinically relevant properties are extremely well balanced.

Great detail reproduction
Internal tests prove Express 2 VPS materials to have superior hydrophilicity and great flow properties, ensuring first-class detail reproduction.

Distortion-free removal from the mouth
Impressions made with Express 2 VPS materials are less likely to tear upon removal from the mouth than impressions made of other leading VPS products.

Reduced chance of remakes
Express 2 wash materials stand out for their ability to almost completely regain their original shape after elongation or compression, minimizing the risk that an impression will have to be redone.

Highly positive feedback from practitioners
Results from a Europe-wide market survey show high overall customer satisfaction with the Express 2 materials tested.

1-step/2-step techniques

Position™
VPS Alginate Replacement

Extremely convenient

With Position™ VPS Alginate Replacement Material making impressions for typical alginate indications has become more convenient and time-saving.

The material combines the advantages of alginates and A-silicones – including the benefits and convenience of automatic mixing with the Pentamix™ System:

- High accuracy for high impression precision
- Less distortions through elastic recovery
- Long-term storage ability due to high dimensional stability
- Suitable for multiple pouring plus no need of immediate casting
- Allows for easy and thorough disinfection

Another plus: 3M ESPE Position™ Tray

The disposable Position™ Tray completes the preliminary impression system from 3M ESPE – making the impressioning process even easier. The single use tray does not require a tray adhesive or cleaning.

For a better patient comfort, a built-in reservoir and a surrounding lip helps to prevent unpleasant material overflow.

Indications:
- Preliminary impressions
- Provisional crown and bridge impressions
- Opposing dentition impressions
- Study model impressions
- Impressions for orthodontic models
- Impressions for bleaching trays and mouthguards
- Smooth surface reduces trimming of models and provisionals

Portfolio:
- 2 Penta™ Tray Materials for automatic mixing in the Pentamix™ System (regular- or fast-setting)
- Fast-setting „Quick“ version for 1 – 2 unit cases
- Disposable Position™ Tray – available in different tray sizes for upper/lower jaw (S, M, L)

Our Expertise™ guidebooks – your resource for optimum results.

Expertise™ Impressioning Compendium
A formula for success: All about impressioning – with expert theoretical and practical knowledge that provides valuable guidelines on achieving a perfect professional outcome.

Expertise™ Impressioning Trouble Shooting Guide
Based on our experience, know-how and clinical input, this guide helps to identify common problems when making an impression and provides you with solutions.

More information: www.expertise.com