

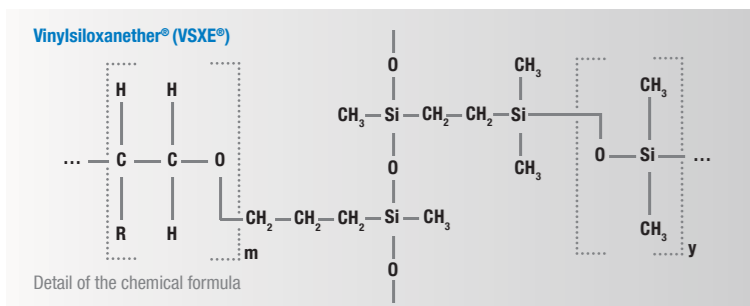
We attach importance to every detail. Including the documentation.

The best of two worlds

Every intraoral situation is an individual challenge. Even when the indications are comparable, it does not mean that the requirements of the impression material are the same. The clinical situation of the patient alone presents a challenge to the material in many ways. The goal is to provide an identical reproduction every time with maximum detail and dimensional accuracy.

Two materials have proven their value in different ways: polyether and A-silicone. Both have similar but distinct advantages. Many dentists and dental technicians use different impression materials depending on the clinical situation they are faced with. Many others, however, prefer to use a single material and accept certain disadvantages. Additionally, handling in the dental office and storage are also factors that must be considered.

We have asked ourselves the question: is it possible to develop a material that has all the advantages of both of these market-defining products, but not their shortcomings? A material that offers the best possible solution for the majority of impressions? After years of intensive research, we have succeeded in finding the perfect balance of the characteristics of polyether and A-silicone. Not by improving an existing material, but by creating a completely new one: Vinylsiloxanether®.



Vinylsiloxanether® (VSXE®) is extremely hydrophilic, highly flowable, provides excellent resilience and offers a high degree of comfort for the user and the patient. With accurate impressions in the narrowest crevices and high definition even in the

moist sulcus, Identium® offers the optimal basis for identical transfer of the clinical situation in the mouth onto the working model.

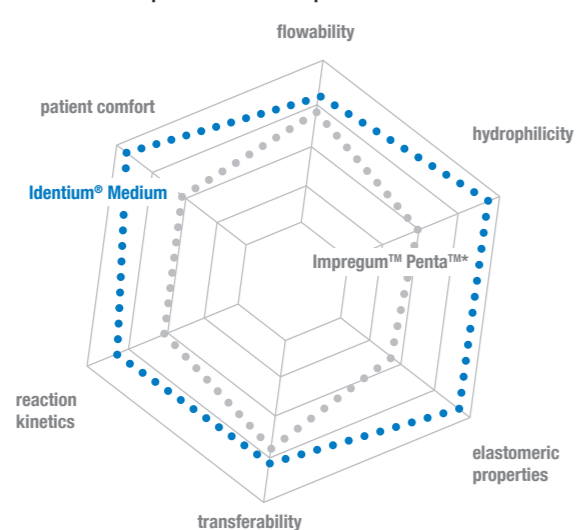
Identium® generates many other advantages from the outstanding elastomeric properties, as they are known from A-silicones. They include dimensionally accurate recovery, high tensile strength and easy removal from the patient's mouth and from the plaster model.

In contrast to polyether materials, Identium® is odorless and tasteless. Every dentist knows that an unpleasant material in the mouth leads to the gag reflex in the patient, which can result in erratic movement and inaccurate impressions. Identium® largely eliminates this source of errors.

Properties in optimal balance

Identium® was developed especially for the one-step impression technique. With the perfect balance between stability, flowability and pressure build-up and between long working time and short intraoral time, the material is suitable for the complete range of impressions.

Identium®: an impression material in perfect balance



Smart concept for one-step impression technique

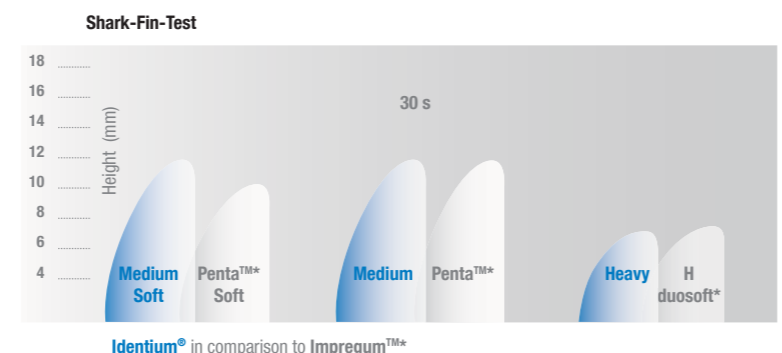
Kettenbach's new product line, Identium®, is a complete system optimized for the one-step impression technique (monophase, double mix) and applicable for the following indications:

- implant impressions
- fixation impressions
- impressions for transfer of primary crowns
- impressions for fabrication of crowns/bridges, inlays/onlays, veneers
- functional impressions
- relin impressions

Identium® is an ideal impression material for all indications.

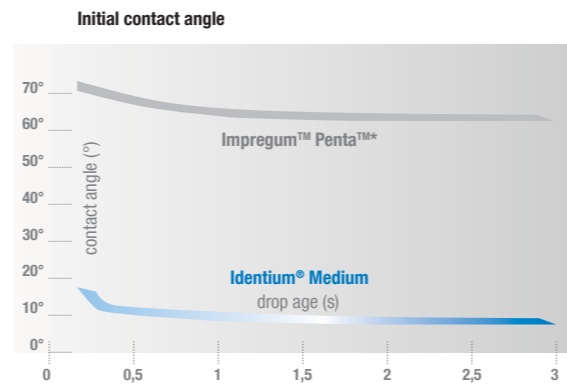
Smart rheology system for excellent flowability

An impression material is expected to spread particularly well around the tooth. At the same time, it must be stable enough not to drip from the tray. For this purpose, Identium® has a thermosensitive rheology system. The material flows well into narrow crevices and the deepest sulcus, thus providing the important prerequisites for a detailed impression. Tooth preparations can be coated with Identium® without any material dripping from the tooth. Identium® finds the necessary balance between stability, flowability and pressure build-up throughout the whole working time – and reaches the maximum values in the well-known "Shark-Fin" test.



Smart hydrophilicity concept for perfect wetting

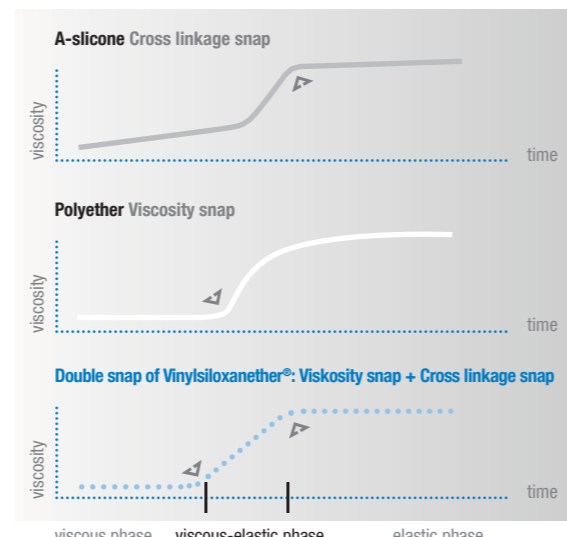
For precise impressions in the sulcus and other moist areas, the moment of first contact between the material and the tooth surface is critical. The speed with which the impression material flows is also important. Otherwise, despite accurate preparation and proper drainage, it may result in incorrect detail reproduction, bubbling, wavelike shapes, pulls, tears, voids or fins in the impression.



With a contact angle of less than 10° after one second, Identium® reaches maximum values for hydrophilicity. In contrast to other materials available in the market, Identium® succeeds in quickly developing high hydrophilicity and then maintaining it over the entire working time. The result: well-defined impressions, even in extreme situations.

Smart reaction kinetics for a long working time

Our concept of combining the best of two worlds is most evident in the reaction kinetics of Identium®. One advantage of polyether is a relatively long intraoral working time, while an advantage of A-silicones is an extremely short curing time. With Identium®, Kettenbach has developed an impression material that has a long working time with a noticeable viscosity snap and a clear wetting snap. We call it simply the



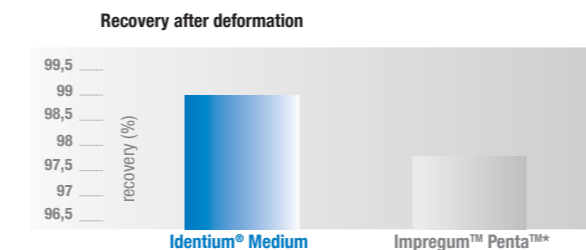
All measurements were carried out on the premises of the Kettenbach company, on the basis of respective DIN ISO standards of measurement specifications, if available. *Registered trademark of the 3M Corp. company.

"double-snap effect." It means that Identium® can be used until the end of the working time, allowing you to work on complex cases involving several teeth.

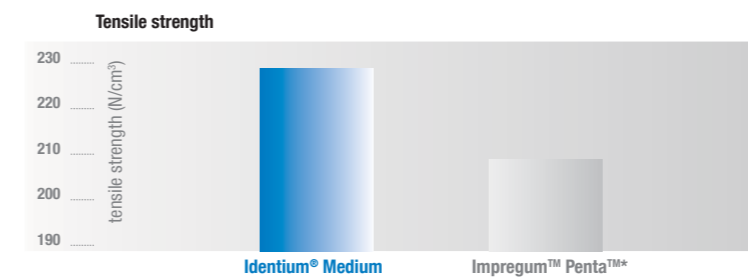
It also means that the impression can be easily and precisely removed and that it remains dimensionally stable.

Smart elastomeric properties for excellent recovery and easy removal

During removal, every impression material is subjected to strong mechanical stresses. It is compressed in order to get over the tooth equator. It is stretched when it is removed from underneath and narrow areas. Identium® offers all the advantages of the elastomeric properties of A-silicone. Material burrs do not break away and the recovery after elongation is almost 100%.



The remarkable flowability and hydrophilicity of Identium® ensure that it gets into the narrowest crevices. This means that the tensile strength and tear strength of the material during removal must rise accordingly. Here, Identium® offers the optimal balance and highest values during measurement.



The positive elastomeric properties of Identium® ensure that impressions can be easily removed from the patient's mouth and the plaster model. Accidental tooth extractions and stumps breaking off from the plaster model are now a thing of the past.

Smart transferability for precise transfer impressions

Identium® reaches its high final hardness immediately after setting, ensuring that the transfer post sits firmly in the implant impression and provides for a precise transfer of the spatial dimension onto the plaster model.

Smart features for improved patient comfort

It is well known that the bad odor and taste of polyether materials make it difficult for patients to resist a gag reflex. This convulsive movement can lead to inaccuracies in an impression due to shaking, thus requiring that the impression to be taken again. That is why it was important for us at Kettenbach to eliminate this possible source of error. For the benefit of the patient and the practitioner, Identium® is tasteless and odorless. Additionally, thanks to the well-balanced thixotropy, the impression material rarely flows under pressure into the throat. Therefore, the material does not affect the rest position of the patient, thus guaranteeing precise, identical impressions.

Identium® advantages:

- **Excellent flowability** thanks to a thermosensitive rheology system allows the material to get into the narrowest sulcus crevices while ensuring high stability.
- **Optimized elastomeric properties:** dimensionally accurate recovery and easy removal from the mouth.
- **Balanced setting behavior** with the double-snap effect for a long working time at a short intraoral time.
- **Easy and fast,** true-to-detail fabrication of models without fracture risk.
- **Odorless and tasteless** for a pleasant feel in the mouth: no gag reflex, no erratic movement.
- **Easy handling** in the familiar Plug & Press® system, compatible with commercially available disinfectants, pouring without waiting time.
- **Remarkable hydrophilicity** (dynamic surface conditioning through a synergistic hydrophilic system) means an optimal wetting in a moist environment and the lowest achievable contact angle (less than 10° after 1 second).
- **Constant product properties** throughout the whole clinical working period.

Smart handling parameters for easy pouring and simple disinfection

Because Identium® reaches its final hardness immediately after the setting time, subsequent work steps can be performed more quickly. The model is ready for pouring immediately after disinfection – which is especially advantageous for dentists who have a lab in their office. The high hydrophilicity allows the plaster paste to spread particularly well. The result is an extremely detailed, surface-smooth model.

In contrast to polyether materials that degenerate with time, disinfection does not present any problem for Identium®. It is compatible with all common disinfectants, does not swell and is storage-stable.

Identium® is available in the simple, safe and fast Plug & Press® system with the 5:1 foil bag material for automatic dispensation.

Clinically identical reproduction, clinically identical working basis

Identium® from Vinylsiloxanether® (VSXE®) sets a new standard for the one-step impression technique. It has a vast range of strengths – including the elimination of error sources from other materials. Identium® is more than just a synthesis of properties of A-silicone and polyether, Identium® goes farther. It is the best of two worlds.

Smart product portfolio for one-step impression techniques – Identium® for every indication

Identium® Medium

Medium-viscosity, syringeable impression material with high final hardness. Especially intended for Implant and fixation impressions, but also suitable for impressions for fabrication of crowns/bridges, inlays/onlays and veneers, functional impressions, impressions for removable dentures and implant impressions. Available in Kettenbach's 5:1 foil bag Plug & Press® system.

Identium® Heavy

High-viscosity tray material with high final hardness. Particularly suitable for the double mix technique (in combination with the low-viscosity Identium® Light) for impressions for fabrication of crowns/bridges, inlays/onlays and veneers, functional impressions, impressions for removable dentures and implant impressions. Available in Kettenbach's 5:1 foil bag Plug & Press® system.

Identium® Medium soft

Medium-viscosity, syringeable impression material with low final hardness. Particularly suitable for impressions for fabrication of crowns/bridges, inlays/onlays and veneers, functional and relin impressions as well as for impressions in patients with periodontally damaged residual dentition. Available in Kettenbach's 5:1 foil bag Plug & Press® system.

Identium® Light

Low-viscosity, syringeable impression material. Particularly suitable for the double mix technique (in combination with the high-viscosity Identium® Heavy) for impressions for fabrication of crowns/bridges, inlays/onlays and veneers, impressions for removable dentures and relin impressions. Available in the 1:1 cartridge system.





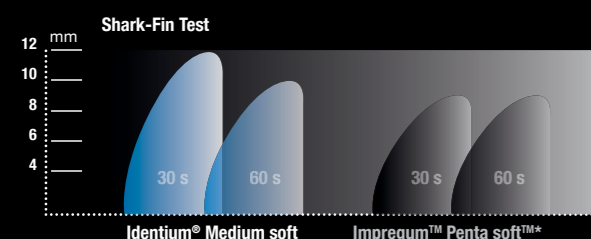
The best of two worlds:

Identium®

For us, good is never good enough. It is our ambition to always innovate and improve. From this aspiration, an entirely new material has emerged for the one-step impression technique. Identium® from Vinylsiloxanether® (VSXE®) combines for the first time all the advantages of polyether and A-silicone in one. [And does it in perfect balance.](#)

Smart rheology system for excellent flowability

Identium® flows into the deepest sulcus or narrowest crevices. It provides optimal working time, even for extensive procedures. Identium® offers the perfect balance of stability and flowability, and it works well under pressure.



Smart elastomeric properties for easy removal

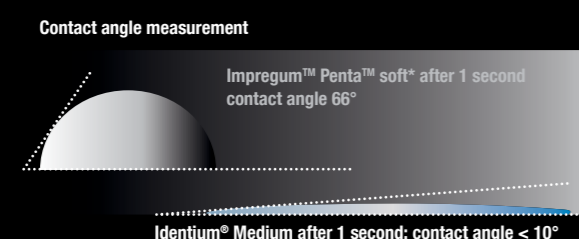
Identium® offers all the advantages of optimal elastomeric properties: an excellent dimensionally accurate recovery and a high tensile strength form the basis for an accurate impression that is easily removed from the patient's mouth or from the plaster model.

Smart reaction kinetics for a long working time

Identium® is the first material having a double "snap effect": it combines a long working time (sufficient even for large work) with a short setting time.

Smart hydrophilicity concept for perfect wetting

Thanks to its highly dynamic surface conditioning, Identium® reaches optimum values for hydrophilicity and offers exceptional wetting even in a moist environment with the lowest achievable contact angle (less than 10° after 1 second).



Smart transferability for precise transfer impressions

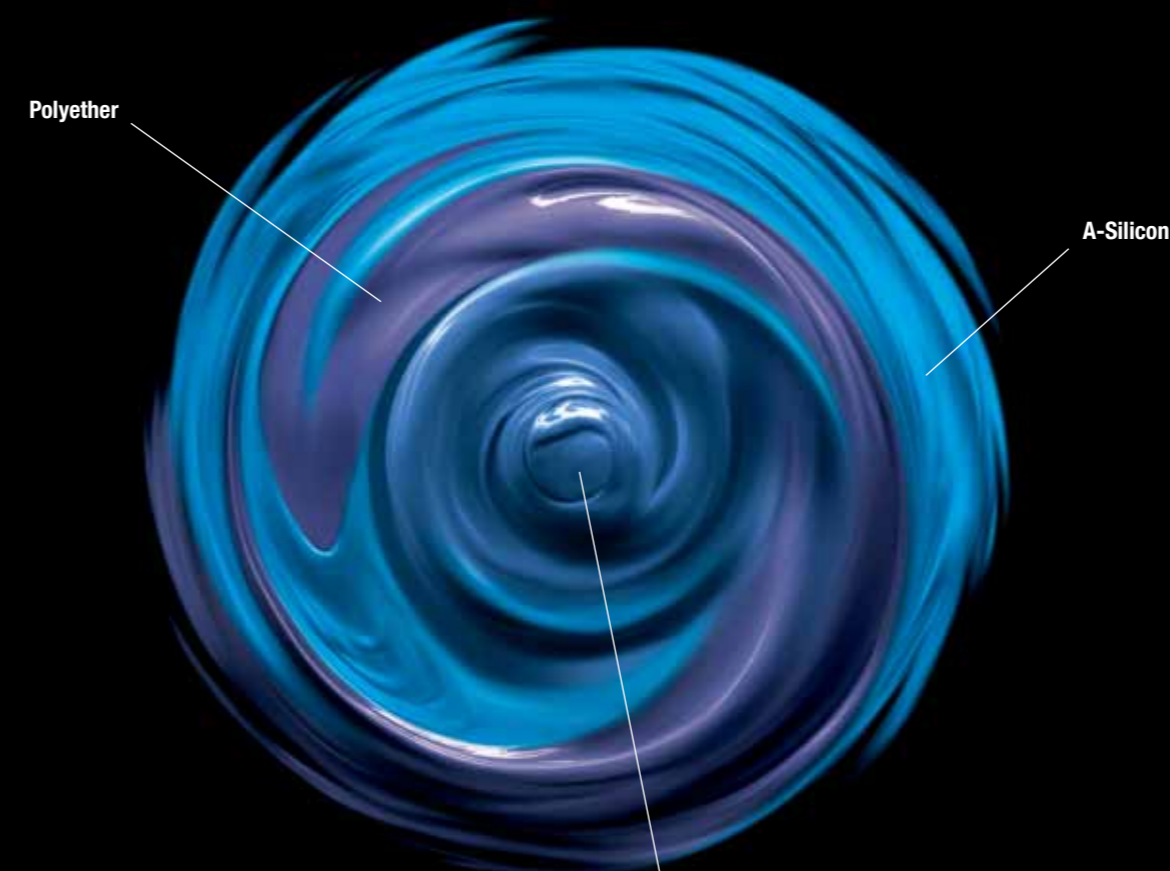
Identium® reaches its final hardness immediately after setting, ensuring that the transfer post sits firmly in the implant impression and provides a precise transfer of the spatial dimension onto the plaster model.

Smart features for improved patient comfort

Identium® is odorless and tasteless, a factor that should not be underestimated when taking impressions. The unpleasant taste of polyether materials can cause involuntary gagging and lead to erratic movement and distortions of the impression. With Identium®, the dentist and dental technician can count on absolutely identical results.

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The best of two worlds. Identium®



Identium®

Utilizing the best characteristics of two well-known impression materials, Kettenbach has developed an entirely new one, designed especially for the one-step impression technique. [Identium® from Vinylsiloxanether®.](#)

The best of polyether:

Polyether materials are well suited for the one-step impression technique because they offer a high degree of precision, dimension stability and detail reproduction. They offer versatile capabilities in various tooth situations thanks to:

- well-developed flow properties
- good hydrophilicity
- long working time
- high final hardness



The best of A-silicone:

Addition-curing silicones exhibit well-developed elastic properties, resisting even high mechanical stresses. Due to their special chemical composition, they offer:

- optimal recovery after deformation
- easy removal from the mouth and model
- improved patient comfort due to the absence of odor and taste: eliminates the risk of erratic movements due to gag reflex

