The following SSCP (Summary of Safety and Clinical Performance) is applicable to the following product(s):

Liquids for Veneering Ceramic, VITA LUMEX ® AC, VITA VM®11, VITA VM®9

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Revision History

Version	Changes
015	**New Clinical Evaluation**
016	**Yearly update**
017	**Formal Update on first page and updating standards**

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Germany
017/11.2026

Identification of the device



Device trade name	Liquids for Veneering Ceramic, VITA LUMEX ® AC, VITA VM®11, VITA VM®9
Manufacturer	VITA Zahnfabrik H. Rauter GmbH & Co. KG Spitalgasse 3 D-79713 Bad Säckingen
Manufacturers SRN	DE-MF-000005906
BASIC-UDI-DI	++J017BB2PQ (Ceramics) ++J017BD1PU (Liquids)
Medical device nomenclature (EMDN)	Q010699 - MATERIALS FOR THE PREPARATION OF CUSTOM-MADE DENTAL DEVICES – OTHER
Class of device	IIa
Year of first CE certificate	VITA LUMEX AC: 2019
	VITA VM 9: 2008
	VITA VM 11: 2012
Notified Body including identification no.	DEKRA Certification GmbH, Identification no.: 0124

Indications, Intended Purpose and Target populations

Intended purpose	VITA LUMEX AC, VITA VM 11 and VITA VM 9 products are ceramic materials for dental treatments.
Indication	**VITA LUMEX AC**: Indication range: • Full and partial veneering of zirconia • Full and partial veneering of lithium disilicate • Partial veneering of feldspar ceramic • Reconstruction without a substructure • Full and partial veneering of titanium grade 1-5 Materials: • Zirconia substructures (CTE approx. 10.0 to 10.5 x 10^{-6} K^{-1}) • Glass-ceramic substructures (CTE approx. 9.0 to 10.5 x 10^{-6} K^{-1}) • Titanium framework constructions (CTE approx. 9.0 to 10.5 x 10^{-6} K^{-1}) **VITA VM 9**: • for veneering zirconia substructure materials in the CTE range of approx. 10.5 x 10^{-6} K^{-1}, such as VITA YZ SOLUTIONS • for individualizing VITABLOCS **VITA VM 11**: • for individualizing restorations made of zirconia-reinforced lithium silicate ceramic (ZLS), especially for VITA SUPRINITY PC.
Contraindication	**VITA LUMEX AC:** • Substructures with unsuitable CTE values and material properties • In patients with allergies or sensitivities to the ingredients • In cases of insufficient space available **VITA VM 9:** • substructures out of the recommended CTE range • parafunctions (e.g. bruxism) • if minimum layer thicknesses of the ceramics cannot be adhered to • in cases of insufficient oral hygiene **VITA VM 11**: • substructures out of the recommended CTE range • parafunctions (e.g. bruxism) • if minimum layer thickness of the ceramics cannot be adhered to • in cases of insufficient oral hygiene
Intended user	Dental technician, Dentist, Professional User, Rx only

Device description

a) Description of the medical device(s)

Veneering ceramics are used to veneer a wide variety of framework materials in the dental field. The CTE of substructure materials and veneering materials must be coordinated accordingly. The use on the corresponding substructure materials is indicated as indication or to use material in the corresponding accompanying documents of the products.

b) Previous generations of the medical device(s)

Veneering ceramics have been on the market in all possible variations for many decades. Special predecessor products of VITA LUMEX AC, VITA VM 9 and VITA VM 11 do not exist in this form.

c) Accessories / other products which are intended to be used with the medical device(s)

The following products can, but do not have to be used with the product. For a detailed description of how to use the products in combination, please refer to the product's instructions for use.

Accessories for VITA LUMEX AC:

Name of accessory	Short description
VITA LUMEX AC Modelling Liquid	Use VITA OPAQUE LIQUID for the OPAQUE materials and VITA LUMEX AC MODELLING LIQUID for the remaining ceramic materials to achieve an aqueous mixture for processing.
VITA OPAQUE LIQUID	Use VITA OPAQUE LIQUID for the OPAQUE materials and VITA LUMEX AC MODELLING LIQUID for the remaining ceramic materials to achieve an aqueous mixture for processing.
VITA Easyshade V	For digital shade determination of the dental material, use VITA Easyshade V.
VITA shade guide	For traditional shade determination of the dental material, use a VITA shade guide.
VITA YZ SOLUTIONS	Recommended substructure for VITA LUMEX AC.

Name of accessory	Short description
VITABLOCS	Recommended substructure for VITA LUMEX AC.
VITA AMBRIA	Recommended substructure for VITA LUMEX AC.
VITA AKZENT PLUS	For characterizing and glazing of the restorations made with VITA LUMEX AC.
VITA VACUMAT 6000 M	For veneer and stain firings.
VITA Karat Diamond Polishing Set	Recommended Polishing Set for the polishing of the restorations.
VITA ADIVA LUTING SOLUTIONS	VITA LUMEX AC-veneered restorations are bonded with full or self-adhesive bonding protocol with VITA ADIVA LUTING SOLUTIONS.
VITA Modisol	For easier removal of the restoration, insulate the model beforehand with VITA Modisol.

Accessories for VITA VM 9:

Name of accessory (manufacturer)	Short description
VITA MODELLING FLUID RS	Red special liquid for mixing all dentine, incisal and additional materials. The smooth consistency of VITA MODELLING FLUID RS allows extended and wet processing, while ensuring good stability. The fluid is particularly suited for large sized restorations and multi-unit bridges.
VITAVM® MODELLING LIQUID	For mixing BASE DENTINE, TRANSPA DENTINE, ENAMEL and all additional materials.
VITA MODELLING FLUID	For mixing all dentine, incisal and additional materials. The MODELLING FLUID avoids rapid drying of the ceramic material. The liquid also causes increased plasticity when layering.
VITA MODELLING LIQUID 30M	Mixing dentine and enamel materials when modelling VITA porcelains.
VITA VM PASTE FLUID	For mixing the VITA VM 9 Effect Bonder pastes
VITA YZ Solutions	Recommended Substructure
VITABLOCS	Recommended Substructure
VITA CERAMICS ETCH	Can be used for etching the surface of VITA VM 9.

Name of accessory (manufacturer)	Short description
VITA YZ T COLORING LIQUIDS	For characterizing of VITA YZ Substructures and before veneering with VITA VM 9
VITA AKZENT PLUS	If required, the entire restoration can be coated with VITA AKZENT Plus GLAZE and then individualization can be carried out using the VITA AKZENT Plus stains.
VITA Modisol	Insulate the model once more at the pontic with the VITA Modisol pen.

Accessories for VITA VM 11:

Name of accessory(manufacturer)	Short description
VITA LOW FUSING MODELLING LIQUID	For consistency adjustment during the processing of ceramic powders
VITA SUPRINITY PC	Recommended substructure
VITA SUPRINITY Polishing Sets	For polishing of veneered restorations
VITA AKZENT Plus	In the cut-back technique, VITA VM 11 materials are applied to the incisal or occlusal areas of the milled, reduced VITA SUPRINITY PC restoration. Then stains and glaze firing with VITA AKZENT PLUS is carried out.
VITA INTERNO	The VITA INTERNO materials can be mixed in to intensify the shade.
VITA Firing Paste	When using firing pastes (e. g., VITA Firing Paste), the veneering ceramic must not come into direct contact with the firing paste, since the liquid contained in the paste burns more slowly. In such cases, gray discoloration may occur, but this can be avoided by extending the pre-drying time from 6 to 8 minutes
VITA Karat Polishing Set	A goat hair brush and polishing paste (e.g., VITA KARAT diamond polishing paste) can also be used for high-gloss polishing.
VITA VACUMAT 6000	Furnaces of the VITA VACUMAT 6000 series are perfectly suited.

Possible therapeutic or diagnostic alternatives

Diagnostic/therapeutic alternative with conditions of use	Possible benefit/advantage and possible risks/disadvantages as far as known
The therapeutic alternative of veneers can be a purely monolithic restoration (e.g. crown made of VITABLOCS, restoration made of VITA ENAMIC multicolour without subsequent staining or further characterisation).	The risk of a purely monolithic restoration compared to a classical veneer with e.g. VITA LUMEX AC is a less aesthetic appearance - which could play a role especially in single-tooth restorations in the anterior region.

Reference to harmonized standards and CS applied

Common specifications are not used for the products VITA LUMEX AC, VITA VM 9 and VITA VM 11. The following standards are applied for these products at VITA:

- *MDCG 2021-3 Custom-Made Devices Guideline*
- *ASTM D4332-22 Standard Practice for Conditioning Containers, Packages, or Packaging Components for Testing*
- *ASTM D5276-19 Standard Test Method for drop Test of Loaded Containers by Free Fall*
- *ASTM F1980-21 Standard Guide for Accelerated Aging of Sterile Barrier Systems and Medical Devices*
- *DIN EN 1641:2010-02 Dentistry – Medical devices for dentistry – Materials;*
- *DIN EN 22248:1993-02 Packaging Complete filled transport packages, Vertical impact test by droppinig*
- *DIN EN 62366-1:2021-08 Medical devices - Application 01 usability engineering to medical devices*
- *DIN EN ISO 10993-1:2026-03 Biological evaluation of medical devices – Part 1: Evaluation and testing within a risk management system*
- *DIN EN ISO 10993-10:2023-04 Biological evaluation of medical devices – Part 10: Tests for skin sensitization*
- *DIN EN ISO 10993-11:2018-09 Biological evaluation of medical devices– Part 11: Tests for systemic toxicity*
- *DIN EN ISO 10993-12:2026-02 Biological evaluation of medical devices – Part 12: Sample preparation and reference materials*
- *DIN EN ISO 10993-13:2010-11 Biological evaluation of medical devices – Part 13: Identification and quantification of degradation products from polymeric medical devices*
- *DIN EN ISO 10993-14:2009-08 Biological evaluation of medical devices - Part 14: Identification and quantification of degradation products from ceramics*
- *DIN EN ISO 10993-16:2018-02 Biological evaluation of medical devices – Part 16: Toxicokinetic study design for degradation products and leachables*
- *DIN EN ISO 10993-17:2024-02 Biological evaluation of medical devices - Part 17: Establishment of allowable limits for leachable substances (*
- *DIN EN ISO 10993-18:2023-11 Biological evaluation of medical devices - Part 18: Chemical characterization of materials*
- *DIN EN ISO 10993-2:2023-02 Biological evaluation of medical devices – Part 2: Animal welfare requirements*
- *DIN EN ISO 10993-23:2026-03 Biological evaluation of medical devices - Part 23: Test for irritation*
- *DIN EN ISO 10993-3:2026-11 Biological evaluation of medical devices – Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity*

- *DIN EN ISO 10993-5:2009-10 Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity*
- *DIN EN ISO 10993-6:2026-08 Biological evaluation of medical devices – Part 6: Tests for local effects after implantation*
- *DIN EN ISO 10993-9:2022-03 Biological evaluation of medical devices – Part 9: Framework for identification and quantification of potential degradation products*
- *DIN EN ISO 13485:2021-12 Medical devices - Quality management systems - Requirements for regulatory purposes*
- *DIN EN ISO 14971:2022-04 Medical devices - Application of risk management to medical devices*
- *DIN EN ISO 15223-1:2022-02 Medical devices – Symbols to be used with information to be supplied by the manufacturer – Part 1: General requirements*
- *DIN EN ISO 20417:2022-03 Information to be supplied by the manufacturer of medical devices;*
- *DIN EN ISO 4180:2020-03 Packaging - Complete filled transport packages - General rules for compilation of performance test schedules*
- *DIN EN ISO 6872:2024-12 Dentistry - Ceramic materials*
- *DIN EN ISO 7405:2025-12 Dentistry - Evaluation of biocompatibility of medical devices used in dentistry*
- *DIN EN ISO 9693:2020-02 Dentistry – Compatibility testing for metal-ceramic and ceramic-ceramic systems*
- *ISO 10993-1:2025 Biological evaluation of medical devices - Part 1: Requirements and general principles for the evaluation of biological safety within a risk management process*
- *ISO 13485 03:2016 Medical devices - Quality management systems - Requirements for regulatory purposes*
- *ISO 15223-1 AMD 1:2025-03 Medical devices - Symbols to be used with information to be supplied by the manufacturer*
- *ISO 15223-1:2021-07 Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements*
- *ISO 2206:1987 Packaging - Complete filled transport packages-Identification of parts when testing*
- *ISO 7405:2025-06 Dentistry - Evaluation of biocompatibility of medical devices used in dentistry*
- *ISO 9693:2019-10 Dentistry - Compatibility testing for metal-ceramic and ceramic-ceramic systems*
- *ISO TR 24971 06:2020 Medical devices - Guidance on the application of ISO 14971*
- *ISO 6872:2024-08 -Dentistry - Ceramic materials*
- *ISO-109931-Devices-Guidance_FDA 2020*
- *MDCG 2018-1 Rev.4 Guidance on BASIC-UDI and changes to UDI-DI*
- *MDCG 2019-16 Guidance on Cybersecurity for medical devices*
- *MDCG 2019-4 Timelines for registration of device data elements in EUDAMED*
- *MDCG 2019-5 Registration of Legacy Devices in EUDAMED*
- *MDCG 2019-7 Guidance on Article 15 MDR-IVDR Person responsible for Regulatory Compliance*
- *MDCG 2019-9 Summary of safety and clinical performance*
- *MDCG 2020-6 Guidance sufficient clinical evidence_en*
- *MDCG 2020-3 Guidance on significant changes*
- *MDCG 2020-7 Guidance on PMCF Plan Template*
- *MDCG 2020-8 Guidance on PMCF Evaluation Report Template*
- *MDCG 2021-1 Rev.1 Guidance solution until EUDAMED is fully functional*
- *MDCG 2021-19 Guidance note integration of the UDI within an organisation`s quality management system*
- *MDCG 2021-25 Rev. 1/ Regulation (EU) 2017/745 - application of MDR requirements to 'legacy devices' and to devices placed on the market prior to 26 May 2021*
- *MDCG 2022-4 Rev. 2 Guidance on appropriate surveillance regarding the transitional provisions under Article 120 of the MDR with regard to devices covered by certificates according to the MDD or the AIMDD*
- *MDCG 2023-3 Rev. 2 Questions and Answers on vigilance terms and concepts as outlined in the Regulation (EU) 2017/745 and Regulation (EU) 2017/746*

- *MDCG 2023-7 Guidance on exemptions from the requirement to perform clinical investigations pursuant to Article 61(4)-(6) MDR and on 'sufficient levels of access' to data needed to justify claims of equivalence*
- *MEDDEV 2.7/1 revision 4 June 2016 GUIDELINES ON MEDICAL DEVICES CLINICAL EVALUATION: A GUIDE FOR MANUFACTURERS AND NOTIFIED BODIES UNDER DIRECTIVES 93/42/EEC and 90/385/EEC*
- *Recommendation NB-MED/2.5.2/Rec2: Reporting of design changes and changes of the quality system*

Summary of clinical data

a) Clinical studies of the medical device(s)

According to Article 61 European Medical Device Regulation, (EU) 2017/745 (MDR) the requirement to perform clinical investigations pursuant to paragraph 4 shall not apply to implantable devices and class III devices:

- which have been lawfully placed on the market or put into service in accordance with Directive 90/385/EEC or Directive 93/42/EEC and for which the clinical evaluation is based on sufficient clinical data, and
- is in compliance with the relevant product-specific CS for the clinical evaluation of that kind of device, where such a CS is available; or
- that are sutures, staples, dental fillings, dental braces, tooth crowns, screws, wedges, plates, wires, pins, clips or connectors for which the clinical evaluation is based on sufficient clinical data and is in compliance with the relevant product-specific CS, where such a CS is available.

The products under evaluation (VITA LUMEX AC, VITA VM 9, VITA VM 11) have been lawfully placed on the market and put into service in accordance with Directive 93/42/EEC and the clinical evaluation of these products is based on sufficient clinical data, and is in compliance with the relevant product-specific CS for the clinical evaluation of that kind of device. Therefore, clinical investigations are not necessary to proof clinical safety and clinical evaluation is performed.

b) Clinical evaluation

Extract from the final summary of the clinical evaluation "Veneering Ceramics and Stains VITA Zahnfabrik H. Rauter GmbH & Co. KG" at novineon CRO GmbH June 2025/Rev. 06: […] Based on the documentation provided by VITA, we conclude that the potential risks of the Veneering Ceramics and Stains are acceptable residual risks for the patient and the user. The main risks, chipping or debonding of the dental restorations manufactured from dental ceramics, are described in detail in the scientific literature. Thus, we conclude that the risks of the use of dental ceramics, indications, contraindications and warnings, described in the IFU are well-documented in the published literature and the state-of-the-art, thus being known to dentists or adequately

trained staff (chapter 7.4.2.2.1). When complying with all warnings and precautions, Veneering Ceramics and Stains have an acceptable benefit-risk profile […].”

c) Post market clinical follow-up

PMCF studies may not be required when the medium/long-term safety and clinical performance are already known from previous use of the device or where other appropriate post-market surveillance activities would provide sufficient data to address the risks.

The indication and treatments of VITA dental medical devices are well-known clinical procedures. The basic principles of using dental material are the same since the beginning of the 20th century. Compliance to the DIN EN ISO 6872 applicable for ceramic materials ensure the safe use of the products also in the clinical aspect.

The VITA post market monitoring is pictured below and collects clinically relevant data to an extent that fulfills the requirements of the European Medical Device Regulation, (EU) 2017/745 (MDR) in order to adequately assess and confirm the safety of medical devices.

Therefore, no PMCF studies are required for VITA LUMEX AC, VITA VM 9 and VITA VM 11 and therefore, also not part of this SSCP.

d) Conclusion of clinical performance and safety of the medical device(s)

VITA always ensures the clinical safety of its products, even after they have been placed on the market, by constantly updating the clinical evaluation of its medical products and monitoring them on the market in accordance with the requirements of the European Medical Device Regulation, (EU) 2017/745 (MDR) and according to MEDDEV 2.7/1 revision 4.

For VITA LUMEX AC, VITA VM 9 and VITA VM 11 it can be said that the clinical evaluation of the products clearly states the clinical safety and performance.

There is no doubt about the safety and reliability of the products. They can be used safely in the manner communicated by VITA regarding indications, contraindications, compliance with safety instructions and residual risks.

Suggested profile and training of users

VITA dental products are designed for use by professional users. This specification is made clear by the labeling of VITA products with the symbol "Rx only". The specialist users are dentists and dental technicians who have excellent prior knowledge in the use of our products due to their many years professional training and/or university education. Follow-up training is the responsibility of the expert users and is offered by VITA specifically for VITA products. This guarantees safe handling of VITA products at every point in the application process.

Information on residual risks, undesirable effects and warnings and precautions

a) Residual Risks

Information on product-specific residual risks can be found on the VITA homepage at Downloadcenter. Produktsicherheit (vita-zahnfabrik.com)

Please be aware that these are possible complications and residual risks of the dental product group in general, and not specific to VITA materials.

These risks must be communicated to the patient by trained personnel (e.g., dental professionals).

b) Undesirable effects

There are no known undesirable effects for the products.

c) Warnings and precautions



- **When working with the products, wear suitable safety goggles/face protection, gloves and safety clothing.**

These warnings and precautions can also be found in the corresponding instructions for use of the product(s).