



d.SIGN® 91

Au-based dental metal-ceramic alloy, Type 5

EN Instructions for use	DA Brugsanvisning
Au-based dental metal-ceramic alloy, Type 5	Au-baseret dental metal-keramik legering, Type 5
DE Gebrauchsanleitung	FI Käyttöohjeet
Au-basierte Dentalkeramik-Legierung, Typ 5	Au-pohjainen metallkeramiikan hamsalajainnäkki, Tyyppi 5
FR Mode d'emploi	NO Bruksanvisning
Liga dentaria metal-ceramica dentaria, à base de Au, Type 5	Au-baldig dentalkeramisk legering, Type 5
IT Istruzioni d'uso	NL Gebruiksaanwijzing
Legia dentaria per metal-ceramica a base di Au, Tipo 5	Au-gebaseerde dentale metalceramische legering, Type 5
ES Instruciones de uso	EL Οδηγίες Χρήσεως
Alación dentaria para metal cerámica basada en Au, Tipo 5	οδηγόιστάχ για μεταλλκεραμική κράση για άσητα Au, Τύπος 5
PT Instruções de uso	TR Kullanma Talimatı
Legia dentaria para metalcerâmica à base de Au, Tipo 5	Kullanma talimatı seramik alajımı, Tip 5
SV Bruksanvisning	RU Инструкции по применению
Au-baserad dental metalceramik legering, Typ 5	Au-ceramik dentaallegering, typ 5, met 5
PL Instrukcja stosowania	EC REP
Au-stożeniowy metalceramik legering, Typ 5	

Condition / Treatment	Type	Indications
Porcelain Fired	5	Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Bridges, Wide Bridges, Cast Posts-/Cores, Bars, Attachments, Implant Retained Superstructures, Partial Dentures
Density		
14.3 (g/cm ³)		
EC REP		
Ivoclar Vivadent AG Biedersteinstrasse 2 8584 Schaan Liechtenstein Tel: +423 235 35 35 Fax: +423 235 33 60 www.ivoclarvivadent.com	Manufacturer: Ivoclar Vivadent Inc. 175 Pineview Drive Amherst, NY 14228 USA Tel: +1 800 533 6825 Fax: +1 716 691 2285 www.ivoclarvivadent.com	


Composition (mass %)																			
Au	Pt	Pd	Ag	Cu	Ga	In	Re	Ru	Sn	Zn	Other								
60.0	-	30.6	-	-	1.0	8.4	-	<1.0	<1.0	-	-	-	-	-	-	-	-	-	-

		
		passion vision innovation

Instructions for Use

II PRODUCT DESCRIPTION Au-based dental metal-ceramic alloy, Type 5	III INDICATIONS* Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Bridges, Wide Bridges, Cast Posts-/Cores, Bars, Attachments, Implant Retained Superstructures, Partial Dentures
II WAXING/MODELLATION Design the framework in a reduced anatomic shape taking the planned veneer into consideration. Single crowns require a minimum thickness of 0.3 mm. Abutment crowns require a minimum thickness of 0.5 mm. Ensure the framework design provides adequate support for the veneering material. Avoid sharp angles. Connectors must have the required dimensions to provide resistance to deformation. Create large surface areas for planned soldering, with a gap of 0.05–0.2 mm.	III SPRING Provide the modelled single-tooth restoration or bridge framework with sprues of a suitable size. In general the reservoir, sprue leads, and connector sprues, whether pear shaped or traditional, must be sized according to the specific technique used. When using the direct or indirect technique be sure that the reservoir is positioned in the intended location. The connector sprues between the resin and the casting should be a maximum of 2.5–3.0 mm in length and width. The wax pattern including the sprues must be weighed in grams in order to determine the needed amount of alloy. Wax conversion formula: wax weight (gram) x alloy density = grams of alloy required.

III INVESTING Use the recommended investment material. Follow the manufacturer's instructions.	III PREHEATING / BURN-OUT Recommended burn-out temperature: 750–820 °C / 1380–1510 °F
III MELTING AND CASTING Torch: Propane 0.35 bar / 5 psi, Oxygen 0.7 bar / 10 psi Other specifics may be required by the type of casting machine. It is recommended to use a separate and clean ceramic crucible for each alloy. Preheat the ceramic crucible in the burnout flame. The recommended ratio of used material to new material is 1:1. Do not use flux.	III FRAMEWORK FINISHING After bench cooling, carefully dust and clean the casting with aluminum oxide (Al ₂ O ₃). Do not use a hammer for dusting. Finish the casting with carbide burs and/or with ceramic-bonded grinding instruments. Blast the surface with 50–100 micron aluminum oxide (Al ₂ O ₃) at 4.5 bar / 65 psi pressure. Subsequently, steam clean or ultrasonic clean with distilled water or ethanol and dry the framework.
III OXIDATION Place the framework on the firing tray providing adequate support. To achieve a uniform result follow the oxidation cycle. Temperature: 950 °C / 1740 °F; Holding time: 1 min; Vacuum: No If the oxide layer is stained, grind and blast the surface again. Repeat the oxide firing. Use the appropriate ceramic veneering material, following the manufacturer's instructions.	III HEAT TREATMENT Hardening: 510 °C / 950 °F for 15 min; bench cool III SOLDERING AND LASER WELDING The soldering gap should not be wider than the thickness of the soldering material. Allow the soldered casting to cool slowly. Use flux sparingly. Pre Solder: SHWFC Post Solder: 615, 585 Fine Gold Solder, LFWG Laser Welding Wire: Laser Ceramic White
III POLISHING Carefully remove any oxide and flux residue. Smooth the metal surfaces with rubber polishers. Polish to a high gloss finish using polishing paste. Subsequently, clean using ultrasonic cleaning equipment or careful steam cleaning.	

Density	14.3 (g/cm ³)
EC REP	
Ivoclar Vivadent AG Biedersteinstrasse 2 8584 Schaan Liechtenstein Tel: +423 235 35 35 Fax: +423 235 33 60 www.ivoclarvivadent.com	Manufacturer: Ivoclar Vivadent Inc. 175 Pineview Drive Amherst, NY 14228 USA Tel: +1 800 533 6825 Fax: +1 716 691 2285 www.ivoclarvivadent.com

ISO 13485 Quality Management System Certified	
Made in U.S.A.	passion vision innovation
www.ivoclarvivadent.com	Rx ONLY For dental use only!

Date information prepared: 585424/2019-05-23 / Rev. 13

EN

II PRODUCT DESCRIPTION Au-based dental metal-ceramic alloy, Type 5	III INDICATIONS* Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Bridges, Wide Bridges, Cast Posts-/Cores, Bars, Attachments, Implant Retained Superstructures, Partial Dentures
II WAXING/MODELLATION Design the framework in a reduced anatomic shape taking the planned veneer into consideration. Single crowns require a minimum thickness of 0.3 mm. Abutment crowns require a minimum thickness of 0.5 mm. Ensure the framework design provides adequate support for the veneering material. Avoid sharp angles. Connectors must have the required dimensions to provide resistance to deformation. Create large surface areas for planned soldering, with a gap of 0.05–0.2 mm.	III SPRING Provide the modelled single-tooth restoration or bridge framework with sprues of a suitable size. In general the reservoir, sprue leads, and connector sprues, whether pear shaped or traditional, must be sized according to the specific technique used. When using the direct or indirect technique be sure that the reservoir is positioned in the intended location. The connector sprues between the resin and the casting should be a maximum of 2.5–3.0 mm in length and width. The wax pattern including the sprues must be weighed in grams in order to determine the needed amount of alloy. Wax conversion formula: wax weight (gram) x alloy density = grams of alloy required.
III INVESTING Use the recommended investment material. Follow the manufacturer's instructions.	III PREHEATING / BURN-OUT Recommended burn-out temperature: 750–820 °C / 1380–1510 °F
III MELTING AND CASTING Torch: Propane 0.35 bar / 5 psi, Oxygen 0.7 bar / 10 psi Other specifics may be required by the type of casting machine. It is recommended to use a separate and clean ceramic crucible for each alloy. Preheat the ceramic crucible in the burnout flame. The recommended ratio of used material to new material is 1:1. Do not use flux.	III FRAMEWORK FINISHING After bench cooling, carefully dust and clean the casting with aluminum oxide (Al ₂ O ₃). Do not use a hammer for dusting. Finish the casting with carbide burs and/or with ceramic-bonded grinding instruments. Blast the surface with 50–100 micron aluminum oxide (Al ₂ O ₃) at 4.5 bar / 65 psi pressure. Subsequently, steam clean or ultrasonic clean with distilled water or ethanol and dry the framework.
III OXIDATION Place the framework on the firing tray providing adequate support. To achieve a uniform result follow the oxidation cycle. Temperature: 950 °C / 1740 °F; Holding time: 1 min; Vacuum: No If the oxide layer is stained, grind and blast the surface again. Repeat the oxide firing. Use the appropriate ceramic veneering material, following the manufacturer's instructions.	III HEAT TREATMENT Hardening: 510 °C / 950 °F for 15 min; bench cool III SOLDERING AND LASER WELDING The soldering gap should not be wider than the thickness of the soldering material. Allow the soldered casting to cool slowly. Use flux sparingly. Pre Solder: SHWFC Post Solder: 615, 585 Fine Gold Solder, LFWG Laser Welding Wire: Laser Ceramic White
III POLISHING Carefully remove any oxide and flux residue. Smooth the metal surfaces with rubber polishers. Polish to a high gloss finish using polishing paste. Subsequently, clean using ultrasonic cleaning equipment or careful steam cleaning.	
ADDITIONAL SAFETY CONCERNS AND INSTRUCTIONS	
III CONTRAINDICATIONS For patients with known allergy/sensitivity to any major or minor elements of this alloy, consultation with a physician is recommended. Alloy is not to be used for any application not included within the indications.	III NEBENWIRKUNGEN In Einzelfällen können Sensibilitäten oder Allergien gegenüber Bestandteilen dieser Legierung auftreten. Bitte konsultieren Sie Ihren Arzt. Das Material ist nicht für Anwendungen vorgesehen, die nicht in den Indikationen aufgeführt sind.
III SIDE EFFECTS In individual cases, sensitivity or allergies to elements of this alloy may occur. Ivoclar Vivadent makes no claims regarding the MRI-compatibility of its dental alloys. It is recommended that the patient be made aware of the possibility for dental alloys to affect MRI results and to disclose the presence of dental alloys to the MRI technician prior to conducting a test.	III WECHSELWIRKUNGEN Verschiedene Legierungstypen in derselben Mundhöhle können als galvanischen Reaktionen führen.
III INTERACTIONS Galvanic effects may occur between different or dissimilar alloys in the same oral environment.	III VORSICHT Metallstaub und Metallschmelze sind gesundheitsschädlich, wenn sie eingeatmet werden. Daher muss eine Absaugeinrichtung und/oder eine Schutzmaske verwendet werden!
III CAUTION Metal vapors and metal dust are harmful if inhaled. Therefore, the use of extraction equipment and/or suitable protective masks is advised!	III LAGERBEDINGUNGEN Bei Raumtemperatur und trocken lagern.
III STORAGE CONDITION Store in a dry environment at room temperature.	III HAFTUNGSAUSSCHLUSS Dieses Material wurde für den Einsatz im Dentalbereich entwickelt und muss gemäß Gebrauchsinformation verarbeitet werden. Für Schäden, die sich aus anderweyter Verwendung oder nicht sachgemäßer Verarbeitung ergeben, übernimmt der Hersteller keine Haftung. Darüber hinaus ist der Verwender verpflichtet, das Material eigenverantwortlich vor dessen Einsatz auf Eignung und Verwendungsmöglichkeit für die vorgesehenen Zwecke zu prüfen, wozu auch diese Zwecke nicht in der Gebrauchsinformation aufgeführt sind. Dies gilt auch, wenn die Materialien mit Produkten von Mitbewerbern gemischt oder zusammen verarbeitet werden.
III DISCLAIMER This material has been developed solely for use in dentistry. Processing should be carried out strictly according to the Instructions for Use. Liability cannot be accepted for damages resulting from failure to observe the Instructions or the stipulated area of application. The user is responsible for testing the products for their suitability and use for any purpose not explicitly stated in the Instructions. These regulations also apply if the materials are used in conjunction with products of other manufacturers.	III VERARBEITUNGSDATEN Einbettmasse: phosphatgebunden Aushärttemperatur/Ausbreittemperatur: 750–820 °C Tiegel: Keramikiegel Gießtemperatur: 1330–1380 °C Oxidation: Temperatur: 950 °C; Haltezeit: 1 min; Vakuum: Nein WAX: (25–500 °C; 14,1 x 10 ⁻⁶ K) (20–600 °C; 14,3 x 10 ⁻⁶ K) Empfohlene Metallkeramik: IPS Style®, IPS InLine® One, IPS InLine®, IPS InLine® PM, IPS Classic®, IPS d.SIGN® Härten: 510 °C / 950 °F for 15 min; bench cool Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White

II PRODUCT DESCRIPTION Au-based dental metal-ceramic alloy, Type 5	III INDICATIONS* Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Pontes, Pontes Extensos, Pinos Fundidos/Núcleos, Barras, Adiantamentos, Superestructuras: Implantosoportadas, Dentaduras parciales
II WAXING/MODELLATION Design the structure with a reduced anatomic reduced, leaving in consideration o recobrimiento estético planejado. Coronas unitárias exigem espessura mínima de 0,3 mm. Coroaes de pilares exigem espessura mínima de 0,5 mm. Certifique-se de que o design da infraestrutura forneça suporte adequado para o material de recobrimeto. Evitar ângulos agudos. Os conectores devem ter as dimensões necessárias para fornecer resistência à deformação. Crie grandes áreas de superfície para a soldagem planejada, com uma separação de 0,05–0,2 mm.	III ENCAMERADO / MODELAGEM Modele o padrão de coroa em forma anatômica reduzida, levando em consideração o recobrimento estético planejado. Coroas unitárias exigem espessura mínima de 0,3 mm. Coroaes de pilares exigem espessura mínima de 0,5 mm. Certifique-se de que o design da infraestrutura forneça suporte adequado para o material de recobrimeto. Evitar ângulos agudos. Os conectores devem ter as dimensões necessárias para fornecer resistência à deformação. Crie grandes áreas de superfície para a soldagem planejada, com uma separação de 0,05–0,2 mm.
III INVESTING Use the recommended investment material. Follow the manufacturer's instructions.	III PRECALENTAMENTO / QUEIMA Temperatura de aquecimento recomendada: 750–820 °C
III MELTING AND CASTING Torch: Propane 0.35 bar / 5 psi, Oxygen 0.7 bar / 10 psi Other specifics may be required by the type of casting machine. It is recommended to use a separate and clean ceramic crucible for each alloy. Preheat the ceramic crucible in the burnout flame. The recommended ratio of used material to new material is 1:1. Do not use flux.	III FRAMEWORK FINISHING After bench cooling, carefully dust and clean the casting with aluminum oxide (Al ₂ O ₃). Do not use a hammer for dusting. Finish the casting with carbide burs and/or with ceramic-bonded grinding instruments. Blast the surface with 50–100 micron aluminum oxide (Al ₂ O ₃) at 4.5 bar / 65 psi pressure. Subsequently, steam clean or ultrasonic clean with distilled water or ethanol and dry the framework.
III OXIDATION Place the framework on the firing tray providing adequate support. To achieve a uniform result follow the oxidation cycle. Temperature: 950 °C / 1740 °F; Holding time: 1 min; Vacuum: No If the oxide layer is stained, grind and blast the surface again. Repeat the oxide firing. Use the appropriate ceramic veneering material, following the manufacturer's instructions.	III HEAT TREATMENT Hardening: 510 °C / 950 °F for 15 min; bench cool III SOLDERING AND LASER WELDING The soldering gap should not be wider than the thickness of the soldering material. Allow the soldered casting to cool slowly. Use flux sparingly. Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White
III POLISHING Carefully remove any oxide and flux residue. Smooth the metal surfaces with rubber polishers. Polish to a high gloss finish using polishing paste. Subsequently, clean using ultrasonic cleaning equipment or careful steam cleaning.	
ADDITIONAL SAFETY CONCERNS AND INSTRUCTIONS	
III CONTRAINDICATIONS For patients with known allergy/sensitivity to any major or minor elements of this alloy, consultation with a physician is recommended. Alloy is not to be used for any application not included within the indications.	III NEBENWIRKUNGEN In Einzelfällen können Sensibilitäten oder Allergien gegenüber Bestandteilen dieser Legierung auftreten. Bitte konsultieren Sie Ihren Arzt. Das Material ist nicht für Anwendungen vorgesehen, die nicht in den Indikationen aufgeführt sind.
III SIDE EFFECTS In individual cases, sensitivity or allergies to elements of this alloy may occur. Ivoclar Vivadent makes no claims regarding the MRI-compatibility of its dental alloys. It is recommended that the patient be made aware of the possibility for dental alloys to affect MRI results and to disclose the presence of dental alloys to the MRI technician prior to conducting a test.	III WECHSELWIRKUNGEN Verschiedene Legierungstypen in derselben Mundhöhle können als galvanischen Reaktionen führen.
III INTERACTIONS Galvanic effects may occur between different or dissimilar alloys in the same oral environment.	III VORSICHT Metallstaub und Metallschmelze sind gesundheitsschädlich, wenn sie eingeatmet werden. Daher muss eine Absaugeinrichtung und/oder eine Schutzmaske verwendet werden!
III CAUTION Metal vapors and metal dust are harmful if inhaled. Therefore, the use of extraction equipment and/or suitable protective masks is advised!	III LAGERBEDINGUNGEN Bei Raumtemperatur und trocken lagern.
III STORAGE CONDITION Store in a dry environment at room temperature.	III HAFTUNGSAUSSCHLUSS Dieses Material wurde für den Einsatz im Dentalbereich entwickelt und muss gemäß Gebrauchsinformation verarbeitet werden. Für Schäden, die sich aus anderweyter Verwendung oder nicht sachgemäßer Verarbeitung ergeben, übernimmt der Hersteller keine Haftung. Darüber hinaus ist der Verwender verpflichtet, das Material eigenverantwortlich vor dessen Einsatz auf Eignung und Verwendungsmöglichkeit für die vorgesehenen Zwecke zu prüfen, wozu auch diese Zwecke nicht in der Gebrauchsinformation aufgeführt sind. Dies gilt auch, wenn die Materialien mit Produkten von Mitbewerbern gemischt oder zusammen verarbeitet werden.
III DISCLAIMER This material has been developed solely for use in dentistry. Processing should be carried out strictly according to the Instructions for Use. Liability cannot be accepted for damages resulting from failure to observe the Instructions or the stipulated area of application. The user is responsible for testing the products for their suitability and use for any purpose not explicitly stated in the Instructions. These regulations also apply if the materials are used in conjunction with products of other manufacturers.	III VERARBEITUNGSDATEN Einbettmasse: phosphatgebunden Aushärttemperatur/Ausbreittemperatur: 750–820 °C Tiegel: Keramikiegel Gießtemperatur: 1330–1380 °C Oxidation: Temperatur: 950 °C; Haltezeit: 1 min; Vakuum: Nein WAX: (25–500 °C; 14,1 x 10 ⁻⁶ K) (20–600 °C; 14,3 x 10 ⁻⁶ K) Empfohlene Metallkeramik: IPS Style®, IPS InLine® One, IPS InLine®, IPS InLine® PM, IPS Classic®, IPS d.SIGN® Härten: 510 °C / 950 °F for 15 min; bench cool Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White

II PRODUCT DESCRIPTION Au-based dental metal-ceramic alloy, Type 5	III INDICATIONS* Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Pontes, Pontes Extensos, Pinos Fundidos/Núcleos, Barras, Adiantamentos, Superestructuras: Implantosoportadas, Dentaduras parciales
II WAXING/MODELLATION Design the structure with a reduced anatomic reduced, leaving in consideration o recobrimiento estético planejado. Coronas unitárias exigem espessura mínima de 0,3 mm. Coroaes de pilares exigem espessura mínima de 0,5 mm. Certifique-se de que o design da infraestrutura forneça suporte adequado para o material de recobrimeto. Evitar ângulos agudos. Os conectores devem ter as dimensões necessárias para fornecer resistência à deformação. Crie grandes áreas de superfície para a soldagem planejada, com uma separação de 0,05–0,2 mm.	III ENCAMERADO / MODELAGEM Modele o padrão de coroa em forma anatômica reduzida, levando em consideração o recobrimento estético planejado. Coroas unitárias exigem espessura mínima de 0,3 mm. Coroaes de pilares exigem espessura mínima de 0,5 mm. Certifique-se de que o design da infraestrutura forneça suporte adequado para o material de recobrimeto. Evitar ângulos agudos. Os conectores devem ter as dimensões necessárias para fornecer resistência à deformação. Crie grandes áreas de superfície para a soldagem planejada, com uma separação de 0,05–0,2 mm.
III INVESTING Use the recommended investment material. Follow the manufacturer's instructions.	III PRECALENTAMENTO / QUEIMA Temperatura de aquecimento recomendada: 750–820 °C
III MELTING AND CASTING Torch: Propane 0.35 bar / 5 psi, Oxygen 0.7 bar / 10 psi Other specifics may be required by the type of casting machine. It is recommended to use a separate and clean ceramic crucible for each alloy. Preheat the ceramic crucible in the burnout flame. The recommended ratio of used material to new material is 1:1. Do not use flux.	III FRAMEWORK FINISHING After bench cooling, carefully dust and clean the casting with aluminum oxide (Al ₂ O ₃). Do not use a hammer for dusting. Finish the casting with carbide burs and/or with ceramic-bonded grinding instruments. Blast the surface with 50–100 micron aluminum oxide (Al ₂ O ₃) at 4.5 bar / 65 psi pressure. Subsequently, steam clean or ultrasonic clean with distilled water or ethanol and dry the framework.
III OXIDATION Place the framework on the firing tray providing adequate support. To achieve a uniform result follow the oxidation cycle. Temperature: 950 °C / 1740 °F; Holding time: 1 min; Vacuum: No If the oxide layer is stained, grind and blast the surface again. Repeat the oxide firing. Use the appropriate ceramic veneering material, following the manufacturer's instructions.	III HEAT TREATMENT Hardening: 510 °C / 950 °F for 15 min; bench cool III SOLDERING AND LASER WELDING The soldering gap should not be wider than the thickness of the soldering material. Allow the soldered casting to cool slowly. Use flux sparingly. Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White
III POLISHING Carefully remove any oxide and flux residue. Smooth the metal surfaces with rubber polishers. Polish to a high gloss finish using polishing paste. Subsequently, clean using ultrasonic cleaning equipment or careful steam cleaning.	
ADDITIONAL SAFETY CONCERNS AND INSTRUCTIONS	
III CONTRAINDICATIONS For patients with known allergy/sensitivity to any major or minor elements of this alloy, consultation with a physician is recommended. Alloy is not to be used for any application not included within the indications.	III NEBENWIRKUNGEN In Einzelfällen können Sensibilitäten oder Allergien gegenüber Bestandteilen dieser Legierung auftreten. Bitte konsultieren Sie Ihren Arzt. Das Material ist nicht für Anwendungen vorgesehen, die nicht in den Indikationen aufgeführt sind.
III SIDE EFFECTS In individual cases, sensitivity or allergies to elements of this alloy may occur. Ivoclar Vivadent makes no claims regarding the MRI-compatibility of its dental alloys. It is recommended that the patient be made aware of the possibility for dental alloys to affect MRI results and to disclose the presence of dental alloys to the MRI technician prior to conducting a test.	III WECHSELWIRKUNGEN Verschiedene Legierungstypen in derselben Mundhöhle können als galvanischen Reaktionen führen.
III INTERACTIONS Galvanic effects may occur between different or dissimilar alloys in the same oral environment.	III VORSICHT Metallstaub und Metallschmelze sind gesundheitsschädlich, wenn sie eingeatmet werden. Daher muss eine Absaugeinrichtung und/oder eine Schutzmaske verwendet werden!
III CAUTION Metal vapors and metal dust are harmful if inhaled. Therefore, the use of extraction equipment and/or suitable protective masks is advised!	III LAGERBEDINGUNGEN Bei Raumtemperatur und trocken lagern.
III STORAGE CONDITION Store in a dry environment at room temperature.	III HAFTUNGSAUSSCHLUSS Dieses Material wurde für den Einsatz im Dentalbereich entwickelt und muss gemäß Gebrauchsinformation verarbeitet werden. Für Schäden, die sich aus anderweyter Verwendung oder nicht sachgemäßer Verarbeitung ergeben, übernimmt der Hersteller keine Haftung. Darüber hinaus ist der Verwender verpflichtet, das Material eigenverantwortlich vor dessen Einsatz auf Eignung und Verwendungsmöglichkeit für die vorgesehenen Zwecke zu prüfen, wozu auch diese Zwecke nicht in der Gebrauchsinformation aufgeführt sind. Dies gilt auch, wenn die Materialien mit Produkten von Mitbewerbern gemischt oder zusammen verarbeitet werden.
III DISCLAIMER This material has been developed solely for use in dentistry. Processing should be carried out strictly according to the Instructions for Use. Liability cannot be accepted for damages resulting from failure to observe the Instructions or the stipulated area of application. The user is responsible for testing the products for their suitability and use for any purpose not explicitly stated in the Instructions. These regulations also apply if the materials are used in conjunction with products of other manufacturers.	III VERARBEITUNGSDATEN Einbettmasse: phosphatgebunden Aushärttemperatur/Ausbreittemperatur: 750–820 °C Tiegel: Keramikiegel Gießtemperatur: 1330–1380 °C Oxidation: Temperatur: 950 °C; Haltezeit: 1 min; Vakuum: Nein WAX: (25–500 °C; 14,1 x 10 ⁻⁶ K) (20–600 °C; 14,3 x 10 ⁻⁶ K) Empfohlene Metallkeramik: IPS Style®, IPS InLine® One, IPS InLine®, IPS InLine® PM, IPS Classic®, IPS d.SIGN® Härten: 510 °C / 950 °F for 15 min; bench cool Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White

PT

II PRODUCT DESCRIPTION Au-based dental metal-ceramic alloy, Type 5	III INDICATIONS* Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Pontes, Pontes Extensos, Pinos Fundidos/Núcleos, Barras, Adiantamentos, Superestructuras: Implantosoportadas, Dentaduras parciales
II WAXING/MODELLATION Design the structure with a reduced anatomic reduced, leaving in consideration o recobrimiento estético planejado. Coronas unitárias exigem espessura mínima de 0,3 mm. Coroaes de pilares exigem espessura mínima de 0,5 mm. Certifique-se de que o design da infraestrutura forneça suporte adequado para o material de recobrimeto. Evitar ângulos agudos. Os conectores devem ter as dimensões necessárias para fornecer resistência à deformação. Crie grandes áreas de superfície para a soldagem planejada, com uma separação de 0,05–0,2 mm.	III ENCAMERADO / MODELAGEM Modele o padrão de coroa em forma anatômica reduzida, levando em consideração o recobrimento estético planejado. Coroas unitárias exigem espessura mínima de 0,3 mm. Coroaes de pilares exigem espessura mínima de 0,5 mm. Certifique-se de que o design da infraestrutura forneça suporte adequado para o material de recobrimeto. Evitar ângulos agudos. Os conectores devem ter as dimensões necessárias para fornecer resistência à deformação. Crie grandes áreas de superfície para a soldagem planejada, com uma separação de 0,05–0,2 mm.
III INVESTING Use the recommended investment material. Follow the manufacturer's instructions.	III PRECALENTAMENTO / QUEIMA Temperatura de aquecimento recomendada: 750–820 °C
III MELTING AND CASTING Torch: Propane 0.35 bar / 5 psi, Oxygen 0.7 bar / 10 psi Other specifics may be required by the type of casting machine. It is recommended to use a separate and clean ceramic crucible for each alloy. Preheat the ceramic crucible in the burnout flame. The recommended ratio of used material to new material is 1:1. Do not use flux.	III FRAMEWORK FINISHING After bench cooling, carefully dust and clean the casting with aluminum oxide (Al ₂ O ₃). Do not use a hammer for dusting. Finish the casting with carbide burs and/or with ceramic-bonded grinding instruments. Blast the surface with 50–100 micron aluminum oxide (Al ₂ O ₃) at 4.5 bar / 65 psi pressure. Subsequently, steam clean or ultrasonic clean with distilled water or ethanol and dry the framework.
III OXIDATION Place the framework on the firing tray providing adequate support. To achieve a uniform result follow the oxidation cycle. Temperature: 950 °C / 1740 °F; Holding time: 1 min; Vacuum: No If the oxide layer is stained, grind and blast the surface again. Repeat the oxide firing. Use the appropriate ceramic veneering material, following the manufacturer's instructions.	III HEAT TREATMENT Hardening: 510 °C / 950 °F for 15 min; bench cool III SOLDERING AND LASER WELDING The soldering gap should not be wider than the thickness of the soldering material. Allow the soldered casting to cool slowly. Use flux sparingly. Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White
III POLISHING Carefully remove any oxide and flux residue. Smooth the metal surfaces with rubber polishers. Polish to a high gloss finish using polishing paste. Subsequently, clean using ultrasonic cleaning equipment or careful steam cleaning.	
ADDITIONAL SAFETY CONCERNS AND INSTRUCTIONS	
III CONTRAINDICATIONS For patients with known allergy/sensitivity to any major or minor elements of this alloy, consultation with a physician is recommended. Alloy is not to be used for any application not included within the indications.	III NEBENWIRKUNGEN In Einzelfällen können Sensibilitäten oder Allergien gegenüber Bestandteilen dieser Legierung auftreten. Bitte konsultieren Sie Ihren Arzt. Das Material ist nicht für Anwendungen vorgesehen, die nicht in den Indikationen aufgeführt sind.
III SIDE EFFECTS In individual cases, sensitivity or allergies to elements of this alloy may occur. Ivoclar Vivadent makes no claims regarding the MRI-compatibility of its dental alloys. It is recommended that the patient be made aware of the possibility for dental alloys to affect MRI results and to disclose the presence of dental alloys to the MRI technician prior to conducting a test.	III WECHSELWIRKUNGEN Verschiedene Legierungstypen in derselben Mundhöhle können als galvanischen Reaktionen führen.
III INTERACTIONS Galvanic effects may occur between different or dissimilar alloys in the same oral environment.	III VORSICHT Metallstaub und Metallschmelze sind gesundheitsschädlich, wenn sie eingeatmet werden. Daher muss eine Absaugeinrichtung und/oder eine Schutzmaske verwendet werden!
III CAUTION Metal vapors and metal dust are harmful if inhaled. Therefore, the use of extraction equipment and/or suitable protective masks is advised!	III LAGERBEDINGUNGEN Bei Raumtemperatur und trocken lagern.
III STORAGE CONDITION Store in a dry environment at room temperature.	III HAFTUNGSAUSSCHLUSS Dieses Material wurde für den Einsatz im Dentalbereich entwickelt und muss gemäß Gebrauchsinformation verarbeitet werden. Für Schäden, die sich aus anderweyter Verwendung oder nicht sachgemäßer Verarbeitung ergeben, übernimmt der Hersteller keine Haftung. Darüber hinaus ist der Verwender verpflichtet, das Material eigenverantwortlich vor dessen Einsatz auf Eignung und Verwendungsmöglichkeit für die vorgesehenen Zwecke zu prüfen, wozu auch diese Zwecke nicht in der Gebrauchsinformation aufgeführt sind. Dies gilt auch, wenn die Materialien mit Produkten von Mitbewerbern gemischt oder zusammen verarbeitet werden.
III DISCLAIMER This material has been developed solely for use in dentistry. Processing should be carried out strictly according to the Instructions for Use. Liability cannot be accepted for damages resulting from failure to observe the Instructions or the stipulated area of application. The user is responsible for testing the products for their suitability and use for any purpose not explicitly stated in the Instructions. These regulations also apply if the materials are used in conjunction with products of other manufacturers.	III VERARBEITUNGSDATEN Einbettmasse: phosphatgebunden Aushärttemperatur/Ausbreittemperatur: 750–820 °C Tiegel: Keramikiegel Gießtemperatur: 1330–1380 °C Oxidation: Temperatur: 950 °C; Haltezeit: 1 min; Vakuum: Nein WAX: (25–500 °C; 14,1 x 10 ⁻⁶ K) (20–600 °C; 14,3 x 10 ⁻⁶ K) Empfohlene Metallkeramik: IPS Style®, IPS InLine® One, IPS InLine®, IPS InLine® PM, IPS Classic®, IPS d.SIGN® Härten: 510 °C / 950 °F for 15 min; bench cool Pre Solder / Flux: SHWFC High Fusing Bondal Flux Post Solder / Flux: 615, 585, LFWG Bondal Flux Laser Welding Wire: Laser Ceramic White Laser Ceramic White

II PRODUCT DESCRIPTION Au-based dental metal-ceramic alloy, Type 5	III INDICATIONS* Onlays, 3/4 Crowns, Crowns, Telescope Crowns, Conus Crowns, Pontes, Pontes Extensos, Pinos Fundidos/Núcleos, Barras, Adiantamentos, Superestructuras: Implantosoportadas, Dentaduras parciales
II WAXING/MODELLATION Design the structure with a reduced an	

