

Survey of alloys tested and approved with VITA NP BOND Paste*

Please pay attention to the relevant explanations included in the information on the use prior to the use!

Alloy name	Manufacturer	WAK [$10^{-6} \cdot K^{-1}$] * 25-500°C (25-600°C)	Recommendation/ Approval
System KN	Adentatec	14,1	approved
System Soft-Blank	Adentatec	14,5	approved
Adorbond CC	Ador	13,9 (14)	approved
Ceramill Sintron	Amann Girrbach	14,5	approved
Argeloy N.P. Partial	Argen	14,3 (14,8)	approved
Gialloy CB-N / CB-NH	BK Giuliani	(14,1)	recommended
Wirobond 280	Bego	14 (14,2)	approved
Wirobond SG	Bego	14,1 (14,3)	approved
Brealloy C + B 270	Bredent	(14,3)	approved
CEHALLOY	Hafner	13,9	approved
CrCo DD Bio CW	CADstar GmbH	(14,0)	recommended
Alba 300	Dentale Kompetenz	14,5	approved
Stella Cam	Dentale Kompetenz	14,1 (14,6)	recommended
Magia Cam	Dentale Kompetenz	14 (14,6)	recommended
remanium star MD I	Dentaurum	14,1	approved
remanium star MD II	Dentaurum	14,1	approved
acero disc	dentona	14,1	approved
AURENIUM CombiSoft	Deutsche Aurumed	(14,2)	approved
Biodur soft	DFS-Diamon	14,4 (14,7)	approved
Finoframe CoCr	DT&SHOP	(14,1)	recommended
VEGA	Eisenbacher	14,4	approved
KERA C	Eisenbacher	14,5	recommended
KERAGEN	Eisenbacher	14,5	recommended
coron	Etkon	14,3	approved
CERALLOY CW	Eukamed	14,1	recommended
ecoNEM nova	Heimerle + Meule	(14,1)	approved
DiskBond NF Co-Cr	Inderdent	13,9 (14)	approved
KaVo Everest CAMselect	KaVo	14,6	approved
NEMO	Klasse 4 Dental	14,1	recommended
Lukachrom C	Lukadent	13,9 (14)	approved

*in combination with VITA VMK Master

VITA shade, VITA made.

VITA

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phantom star cc	Metaux Precieux	14	approved
millCHROM	millhouse	14,1	recommended
millCHROM premium	millhouse	14,6	approved
NobelProcera Base Metal Alloy Cobalt Chromium	Nobel Biocare	14,1	approved
Starbond COS Disc basic	S&S Scheftner	14	approved
Tizian NEM	Schütz	(14,5)	recommended
SHERAALEOS-DISC	SHERA	(14,1)	recommended
CoCr BioStar	SILADENT	14,5	approved
InCoris NPM	Sirona	14,5	approved
InCoris NP	Sirona	14,2	approved
Zeno NP Disc	Wieland	14,4	approved
Chrom-Cobalt	Zirkonzahn	14,1	approved

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Information on the use

Attention! Important information!

Information must be read prior to the use!

This survey only intends to provide help for the selection of alloys **without any obligation on the part of VITA. VITA Zahnfabrik will not assume any liability** for the safety and efficiency of the combination of VITA NP BOND Paste and the alloys listed in the survey and for any damage resulting from lack of suitability of the alloy for processing with VITA NP BOND Paste and from any product modifications or quality defects of the alloy in use. The same shall apply to damage resulting from improper handling or processing as well for damage resulting from inappropriate or faulty working instructions for the alloys for which VITA Zahnfabrik will not assume any liability either.

The information provided in this survey refers exclusively to the compatibility of the CTE of the listed alloy with VITA NP BOND Paste for the fabrication of veneers. Any evaluation of the quality of the respective metal-ceramic bond shall not be made in this survey.

The results are exclusively based on sample testing of veneering. VITA Zahnfabrik has no influence on variations in quality in different charges of the alloys and product modifications by the manufacturers. Prior to processing VITA NP BOND Paste with one of the alloys listed in this survey, the user must verify the suitability of the alloy for processing with VITA NP BOND Paste!

In the sample tests of firing results and thermal stability performed by VITA Zahnfabrik the alloys listed in this survey produced good results in combination with VITA NP BOND Paste. We expressly point out that these tests **were only sample tests** (at least 6 single crowns and 1 three-unit bridge).

If perfect results were obtained in the tests, the respective alloys were included in our list.

Thermal fatigue resistance, however, also depends on the size of the object, structure, hardness, thermal conductivity of the alloy in use, percentage of old metal, casting quality and, in particular, on the firing procedure so that it can not be concluded that the use of the alloys listed will always ensure perfect results.

Our result of the CTE measurement formed the basis for the firing cycles in the tests performed by VITA Zahnfabrik. After firing, all restorations were assessed visually prior to thermal fatigue resistance testing. Then all restorations were tested for thermal fatigue resistance.

Experience gathered over numerous years has shown that the use of alloys with a CTE between 14 - 14.4, measured at 25-600 °C, allows to achieve very good results. If the CTE value of the alloy is higher, the temperature range between 900 °C to 700 °C must not be passed in less than three minutes during the cooling phase. However, this does not apply each alloy. In individual cases successful firing performed by VITA Zahnfabrik may differ from the recommendations of the alloy manufacturers.

If you have any questions or problems, please call the VITA Hotline, Tel.: (+49) 7761 / 562-222.

Any illustrations and written information are without obligation and not binding and do not include any undertaking as to characteristics.

This alloy list does not claim to be complete.

After the publication of this survey any previous versions become obsolete.

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