

NexxZr S – strong. white.

NexxZr S is a dental zirconia (Y-TZP ZrO2) with a very high flexural strength of 1370MPa. The simultaneously high opacity value is ideal for discolored stumps or hybrid restorations on titanium bases.

NexxZr S can be used as a framework material with brush or dipping infiltration. All-ceramic veneering is possible with the common all-ceramic systems (see CET value).

NexxZr S - a strong zirconia for fixed and implant-supported prosthetics.

High opacity for discolored stumps

High processing comfort easy to mill

Flexibility in processing for fixed and implantsupported prosthetics

Translucency Flexural strength Esthetics







3-unit / multiunit bridges



Implant-supported restorations



Anatomically reduced crowns and bridges



NexxZr T – translucent. 20 colors.

NexxZr T is a dental zirconia (Y-TZP ZrO2) for monolithic restorations from single-tooth to multi-unit bridge restoration. It impresses with its perfect balance between translucency and strength (1270MPa) for the production of esthetic all-ceramic restorations. The soft material before sintering ensures an effortless manufacturing process.

NexxZr T white can be customized individually by brush or dipping infiltration (NexxZr T Coloring Liquids) or processed as a preshaded variant (16 A-D shades, 3 Bleach shades). All-ceramic veneering is possible with the common all-ceramic systems (see CET value).

NexxZr T - a translucent zirconia for individual esthetics.

Proven Esthetics
Dental
Advisor
Award
DA
2019
WINNER
MARE

Comprehensive color selection 20 colors (16 A-D, 3 Bleach, white)

Maximum variety of indications

Translucency

Flexural strength

Esthetics







Single-tooth restorations



3-unit / multiunit bridges



Implant-supported restorations



Anatomically reduced crowns and bridges



STRONG. ESTHETIC.

NexxZr⁺ – strong. esthetic.

Nexx Zr^+ is a dental zirconia (Y-TZP ZrO2) for highly translucent, monolithic restorations. Nexx Zr^+ white offers with 1000MPa (preshaded 880MPa) an outstanding high flexural strength combined with high translucency.

The soft material before sintering ensures an effortless manufacturing process. NexxZr⁺ white can be customized individually by brush or dipping infiltration (NexxZr⁺ Coloring Liquids) or processed as a preshaded version (6 A-D shades). All-ceramic veneering is possible with the common all-ceramic systems (see CET value).

NexxZr + - a high translucent zirconia for perfect esthetics.

Outstanding esthetics translucent and high-strength

Extensive color selection 7 colors (white, 6 A-D)

Wide range of indications from single-tooth restoration to multi-unit bridge

Translucency

Flexural strength

Esthetics

Anatomically reduced

crowns and bridges





Implant-supported

restorations

* preshaded: maximum 3-unit

3-unit / multi-

unit bridges*

Single-tooth

restorations



NexxZr + Multi – esthetic.multilayer.

NexxZr⁺ Multi is a polychromatic dental zirconia (Y-TZP ZrO2) for the production of esthetic, monolithic restorations with an integrated color grading.

The integrated color gradient and 880MPa flexural strength enable the efficient production of single-tooth restorations and bridges up to 3 units in the anterior and posterior region. The application of all-ceramic glaze paste can be done with the common all-ceramic systems (see CTE value).

NexxZr * Multi - high translucent multilayer zirconia.

Efficiency integrated color gradient

Esthetics

highly translucent and polychromatic

Color selection 7 colors incl. gradient

Translucency

Flexural strength

Esthetics







Single-tooth restorations



3-unit / multiunit bridges



Implant-supported restorations



Anatomically reduced crowns and bridges



NexxZr Tool – perfect. milling.

NexxZr Tool is a powerful portfolio of dental milling tools. The tool geometries are perfectly matched to the NexxZr zirconia portfolio and enable longer tool lifetime and precise milling results.

The portfolio consists of NexxZr Tool U with an uncoated surface and NexxZr Tool D with a special diamond coating for extremely long tool lifetime.

NexxZr Tool U (Uncoated)

- Solid carbide milling tool
- Double-edge radius cutter
- Optimized cutting areas
- Suitable for ZrO2, Wax, PMMA



NexxZr Tool D (Diamond Coated)

- Carbide cutter with special coating for processing of highly abrasive ZrO2 materials
- Layer thickness approx. 5µm (not electrically conductive)

• Double-edge radius cutter

• Very long tool lifetime

ZR02

High edge sharpness more details

Long tool lifetime Cost reduction and comfort

NexxZr Tool U

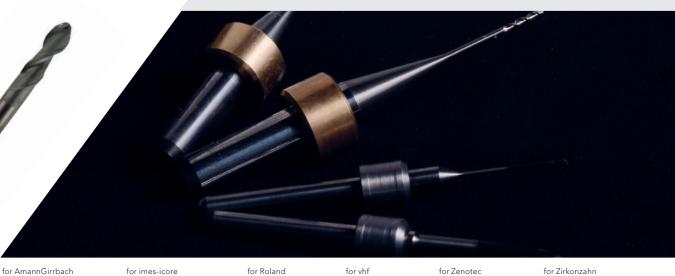


NexxZr Tool D

Tool lifetime Edge sharpness





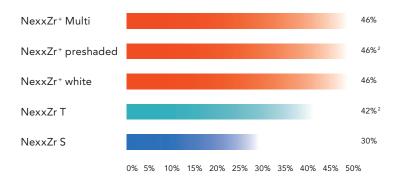




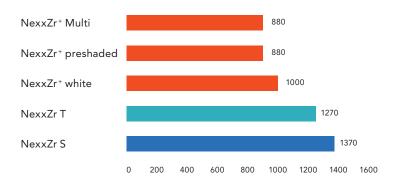




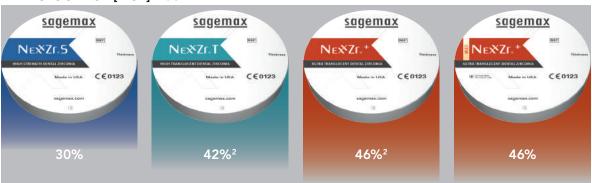
TRANSLUCENCY [1-CR]*100



BIAXIAL FLEXURAL STRENGTH [MPa]¹



TRANSLUCENCY [1-CR]*100



BIAXIAL FLEXURAL STRENGTH [MPa] ¹

1070	1070	1000	000	000	
1370	1270	1000		880	
		white	preshaded		

LINEAR THERMAL EXPANSION / CTE [10-6 K-1]

10.1 ≤ CTE* ≤ 11.1	10.1 ≤ CTE* ≤ 11.1	9.6 ≤ CTE* ≤ 10.6	9.9 ≤ CTE* ≤ 10.9
(*span 25 – 500°C)			

COLORS

white	white, 16 A-D,	white, 6 A-D	7 A-D
	3 bleach		

FRACTURE TOUGHNESS [MPa*m^{1/2}] ¹



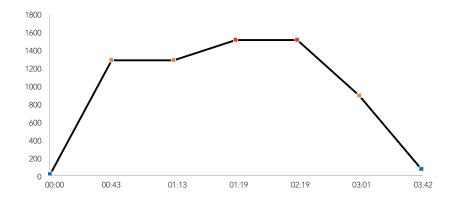
CLASS

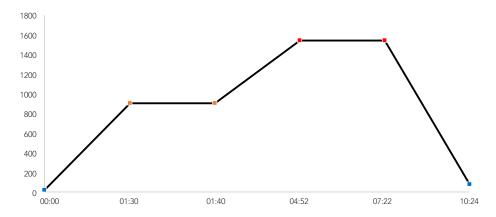
Type II / Type II / class 5 class 5	Type II / class 5 white	Type II / class 4 preshaded	Type II / class 4
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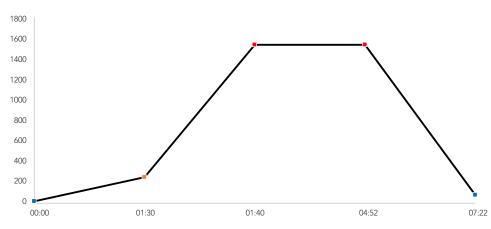
¹ Typical values acc. to EN ISO 6872 (polished specimen)

² Preshaded discs show lower values

NexxZr S, NexxZr T, NexxZr +







	Number of units	Duration in h	Phase	Temperature in °C	Temperature in °F	Heating/co in °C/(min)		Holding time (min)
			Phase 1	20 - 1300	68 - 2372	30	54	30
RD.	1 - 5	~ 3,7	Phase 2	1300 -1530	2372 - 2786	40	72	60
A			Phase 3	1530 - 900	2786 - 1652	15	27	
STANDARI			Phase 4	900 - 80	1652 - 176	20	36	
Ĭ 	5 - 10	~ 5,2	Phase 1	20 - 1300	68 - 2372	30	54	60
S			Phase 2	1300 - 1530	2372 - 2786	40	72	120
			Phase 3	1530 - 900	2786 - 1652	15	27	
			Phase 4	900 - 80	1652 - 172	20	36	

	Number of units	Duration in h	Phase	Temperature in °C	Temperature in °F	Heating/co in °C/(min)		Holding time (min)
			Phase 1	20 - 900	68 - 1652	10	18	10
9	1 - 20	0 ~ 10,8	Phase 2	900 -1540	1652 - 2804	3	5.4	150
ONG			Phase 3	1540 - 80	2804 - 176	8	14.4	-
ت	>21	~ 12,8	Phase 1	20 - 900	68 - 1652	10	18	10
			Phase 2	900 - 1540	1652 - 2804	3	5.4	210
			Phase 3	1540 - 80	2804 - 176	8	14.4	-

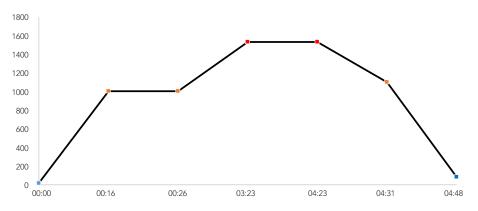
NIGHT	Number of units	Duration in h	Phase	Temperature in °C	Temperature in °F	Heating/co in °C/(min)		Holding time (min)
			Phase 1	20 - 250	68 - 482	2	3.6	-
VER	unlimited	~ 14,3	Phase 2	250 -1530	482 - 2786	4	7.2	240
\geq			Phase 3	1530 - 80	2786 - 176	8	14.4	-

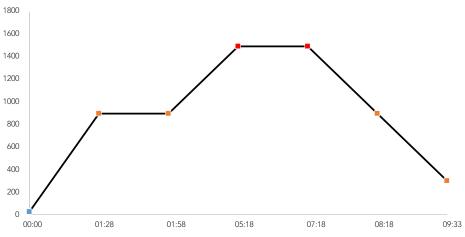






NexxZr + Multi





	Number of units	Duration in h	Phase	Temperature in °C	Temperature in °F	Heating/co in °C/(min)		Holding time (min)
			Phase 1	20 - 1000	68 - 1832	60	108	10
		~ 3,6	Phase 2	1000 -1530	1832 - 2732			60
SPEED			Phase 3	1530 - 1100	2732 - 1832	50	90	
SP			Phase 4	1100 - 80	1100 - 176	60	108	

	Number of units	Duration in h	Phase	Temperature in °C	Temperature in °F	Heating/coo		Holding time (min)
			Phase 1	20 - 900	68 - 1652	10	18	30
	unlimited) 2	~ 9,5	Phase 2	900 -1500	1652 - 2732	3	5.4	120
9			Phase 3	1500 - 900	2732 - 1652	10	18	-
LONG			Phase 4	900 - 300	1652 - 572	8	14.4	-

CAM Positioning:



For an optimal color gradient the incisal / occlusal positioning of the restoration is recommended



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