



PHYSIOSTAR
NFC+

PERFECTED BY MASTERS

Convincingly real.

BY CANDULOR



PHY

Perfection begins where a tooth line feels as natural for the patient as his/her own teeth. Inspired by nature, we developed the PhysioStar design to create precisely this good feeling. PhysioStar looks deceptively real in the mouth due to natural shapes and layering made of strong NFC⁺ material.

SIO
STAR

NFC⁺

NATURAL-LOOKING SHAPES FOR A PERFECT REALITY.

Not too much and not too little.

After 10 years of PhysioStar we can state: it is not about an abundance of tooth shapes that is absolutely necessary – it is about the details to give patients their profile.

With 15 upper jaw shapes, whether Delicate, Vigorous, Universal or Individual, the characteristics of your patients can be personalized.

DELICATE GROUP 55

- > delicate and naturally tapered shapes
- > soft design of the contours
- > juvenile incisal edge shape



UNIVERSAL GROUP 66

- > greatest flexibility of use for all age groups
- > versatile use with square centers and narrow posterior incisors



VIGOROUS GROUP 77

- > powerful characteristics through vigorous shapes with their angular contours
- > authentic abrasions at the incisal edges



15x PERFEC TION

INDIVIDUAL GROUP 88

- > natural and asymmetrical shapes
- > can be used for all age groups
- > unmistakable character through nested set-up



YOUR BENEFIT THROUGH A NATURAL VARIETY OF SHAPES

Patient

The PhysioStar gives patients back their personal identity and quality of life.

Dental technician

The tooth line with individuality for high-quality removable restorations made of NFC⁺.

Dentist

The opportunity of offering the best esthetics and function for removable prosthetics.

WHEN ARTIFICIAL CAN NO LONGER BE DISTINGUISHED FROM THE REAL THING.

PhysioStar shapes in use.

CASE REPORTS



Case 1



Source: Pavel Kravets, Timur Vartanov



Case 2



Source: Prof. Inv. Dr. Jürgen Wahlmann

CONVINCING INDICATIONS WITH A NATURAL EFFECT.

Added value for the patient, laboratory and dental practice.



FULL DENTURES

- > primarily in tooth to tooth relationship
- > lingualized (BC contacts)
- > in full or bilateral balance



PARTIAL DENTURES

- > partial acrylic dentures
- > model cast dentures
- > removable constructions for combined dentures



HYBRID PROSTHETICS (PERIODONTAL, IMPLANT-SUPPORTED)

- > removable superstructures
- > coverdenture / overdenture

ONE MATERIAL. MANY SPECIAL ASPECTS.

NanoFilledComposite⁺ – the basic element for the real-looking PhysioStar.

A SPECIAL FORMULA

NFC⁺ is a composite based on a urethane dimethyl acrylate matrix (UDMA matrix) composed of various types and sizes of fillers as well as PMMA clusters. This results in outstanding physical material properties, such as abrasion resistance and breaking strength.

THE BITE HEIGHT REMAINS FIXED

The greatest advantage of the NFC⁺ material is the excellent abrasion resistance, which is significantly greater than that of materials previously used for teeth. The particularly abrasion-resistant NFC⁺ material was developed to counteract premature wear of teeth and the associated loss of dimension.

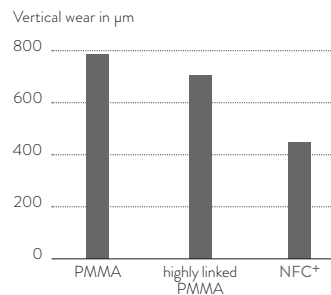
YOUR BENEFIT THROUGH THE NFC⁺ MATERIAL

Patient – Deceptively real, natural-looking and durable teeth at an affordable price.

Dental technician – The alternative to brittle zirconium and classic dental ceramic solutions. Can be integrated and processed in the laboratory routine without efforts in time.

Dentist – Implementation of optimal long-term treatment approaches for esthetic partial and implant prosthetics, which in addition are also easy to expand and repair.

ABRASION RESISTANCE



BREAKING STRENGTH

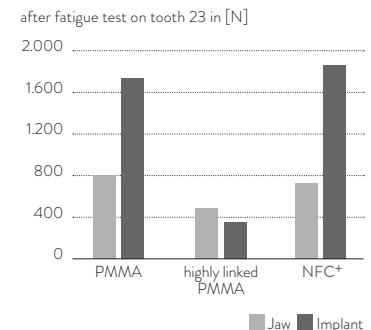
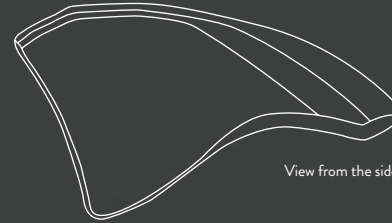


Fig. 1 / Source: Dr. Heintze F&E Ivoclar Schaan, Wary Willytec, 100,000 cycles, 3 kg load, 3 mm lateral stroke, without lifting, 1.2 Hz thermocycling (5°C/55°C)

Fig. 2 / Source: In vitro chipping tests University of Regensburg, chewing/chipping simulation on implants. Failure test at over 2 million cycles and a load of 50 N



View from the side



View from below

INDIVIDUAL ESTHETICS THROUGH LAYERING

A special 4-layer pattern typical for every individual tooth shape was developed for the PhysioStar. With the layering, close attention has been paid to give a natural and esthetic appearance. The special material formula and the developed layers have increased color stability in the mouth.

THE PATIENT PROVIDES THE SOLUTION.

Setup concepts for every situation.



PHYSIOLOGICAL SETUP

Bonartic II NFC⁺ combines the physiological laws of nature and the esthetic-morphological demands to make a perfect tooth. The occlusion morphology of the lower posterior teeth stands in relation to the condyle path so that the inclination of the cusp is 30° for protrusion and 20° for laterotrusion. The inclination of the occlusal plane (Spee, Wilson) can be arranged individually and reliably with the Bonartic II NFC⁺. It is the most important stabilizing element for every prosthetic restoration. The teeth were optimized in terms of a natural tooth to two-tooth relationship. The anatomically designed cusp incline allows perfect interplay between the incisal and grinding effects.

- > Tooth to two-tooth relationship
- > ABC contacts – functional/balance-sided/centric
- > Condyle path-related guidance – protrusion 30°, laterotrusion 20°

BON
ARTIC II
NFC⁺



SETUP ACCORDING TO PROF. DR. A. GERBER

Prof. Dr. A. Gerber established the functional relationship between the shapes of the temporomandibular joints and the occlusal surfaces and as a result, developed the Condyliform tooth on this basis. The modern Condyliform II NFC⁺ offers anatomically optimal occlusion design with age-adapted morphological and natural occlusal proportions and functional areas.

Also integrated is the mortar and pestle principle according to Prof. Dr. A. Gerber which has proven itself for decades. It enables autonomous chewing stability of each individual posterior tooth, as the upper palatal cusp occludes in the central fossa of its main antagonist. Hereby the forces are transferred vertically via the prosthesis base and thus physiologically to the bony prosthesis bed.

- > Tooth to tooth relationship
- > Condyle theory according to Prof. Dr. A. Gerber
- > Lingualized occlusion
- > Joint-related guidance
- > Autonomous chewing stability

CON
DYLO
FORM II
NFC+



CANDULOR AG

Boulevard Lilienthal 8 / CH-8152 Glattpark (Opfikon) / T +41 (0) 44 805 90 00 / F +41 (0) 44 805 90 90 / candulor.com / candulor@candulor.ch