

CATALOGUE2021

www.biodynamic.dental

Michael On Miller
DENTAL DESIGN
LIFE

BI  **DYNAMIC**

PT TECHNOLOGY
PROGRESSIVE TECHNOLOGY



Innovative Solution for dental technicians

Innovative Solution for dental technicians

BioDynamic is founded in 2013, from direct experience of a dental technician lab, which operates for more than 30 years in this sector.

BioDynamic has created an super-translucent product for monoliths that carries all the amazing qualities of the material, and even goes beyond the limits. A zirconia is created for dental technicians, by dental technicians, by eliminating the defects of every zirconia present in the market and by eventually creating what was missing!

Like the 16 colors of the VITA shade guide!



CERTIFICATE

CE COLORS CERTIFICATE

CE CERTIFICATE

REGISTRY ITALIAN MINISTRY OF HEALTH



Innovation

We have eliminated all defects of standard zirconia by creating an ultimate product that adapts to any kind of operation.



Technology

Finally a product for professional technicians with incredible features



Color

Your operations will have no boundaries with the new HdueO Colors by Biodynamic

2. Accessories

HdudOColors	BIONANO SCAN	ZIRCOS-E
INSIDE IN		STARTER-SET
EFFETTI - DENTINE		ETCHING-SOLUTION
		
	<p>-GHOST</p> <p>-PERMANENT</p> <p>-WASHABLE</p>	

[illegible]

MULTILAYER KROMA NUANCE
1200+600Mpa PROGRESSIVE TECHNOLOGY(WHITE)



H
DiskType (=95/98)
12mm
14mm
16mm
18mm
20mm
25mm

Translucency	● ● ● ●
Strength	● ● ● ●
Esthetics	● ● ● ●

Strength	Translucent
Incisal600(±50)MPa	49%
Cervical1200(±100)MPa	

It is suitable for singular crowns and bridges with maximum 3 elements with intermediate layer in front area.

Considering the particular TRANSLUCENT structure of material, the use of specific waterbased colors(HdueO) is advised.

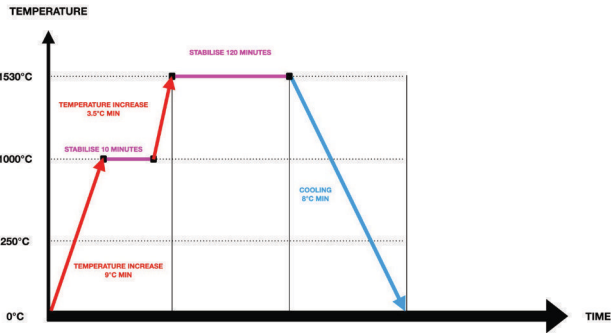
Reduce excess inventory

Reduce block replacing time for milling

Indicacations

ENEERS
INLAYS
ANTERIOES CROWNS
POSTERIOES CROWNS
3UNIT BRIDGES

Sintering Schedule



Translucent	Strength	LayerPortion
49%	600(±50)MPa	30%(incisal)
47%	800(±50)MPa	40%(medio)
45%	1200(±100)MPa	30%(cervical)



KROMA NUANCE

1200+600 MULTILAYER PROGRESSIVE TECHNOLOGY



SIZE

DiskType (=95/98)
12mm
14mm
16mm
18mm
20mm
25mm

Translucency	● ● ● ●
Strength	● ● ● ○
Esthetics	● ● ● ●

Strength
Incisal **600(±50)MPa**
Cervical **1200(±100)MPa**

Translucent
49%

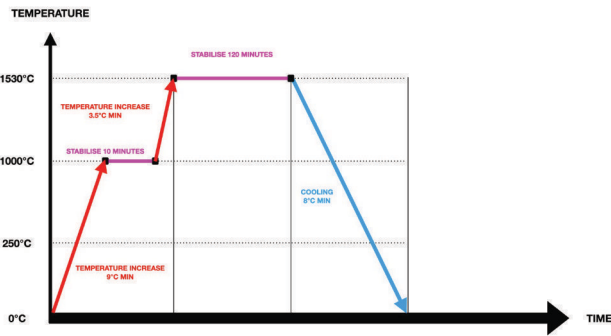
Shade

A1,A2,A3,A3.5,A4
B1,B2,B3,B4
C1,C2,C3,C4
D2,D3,D4

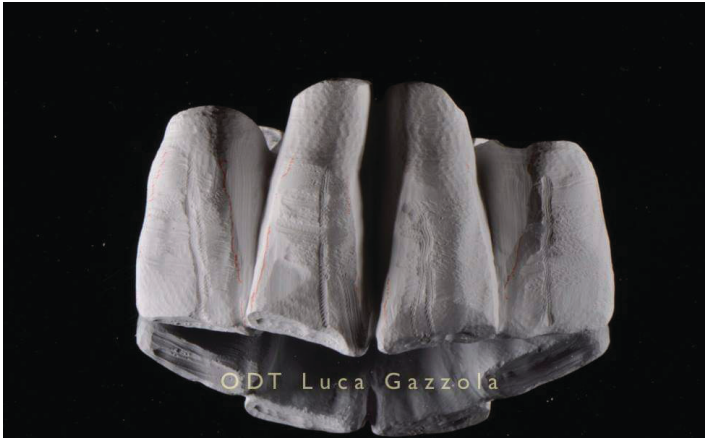
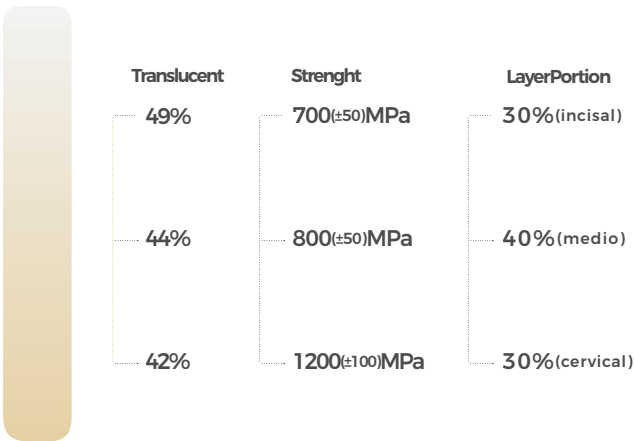
Indication

VENEERS
INLAYS
ANTERIOR CROWNS
POSTERIOR CROWNS
3UNIT BRIDGES

Sintering Schedule

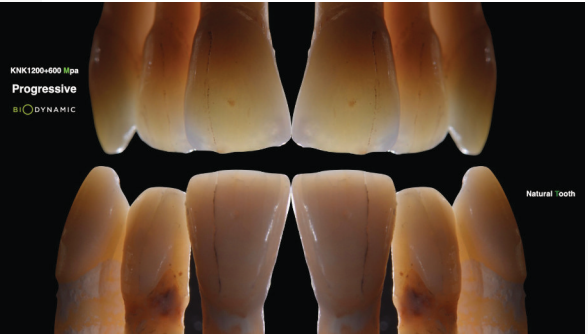
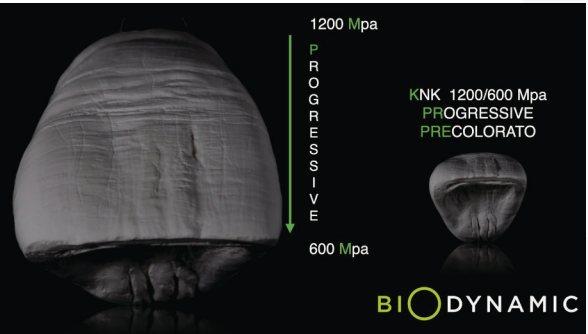
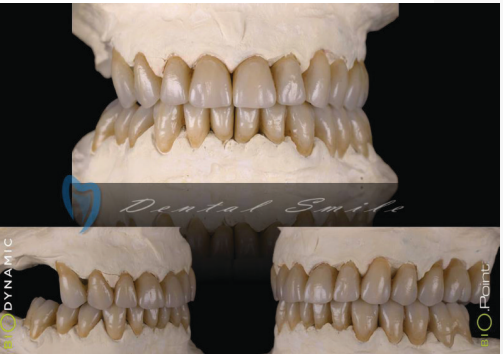
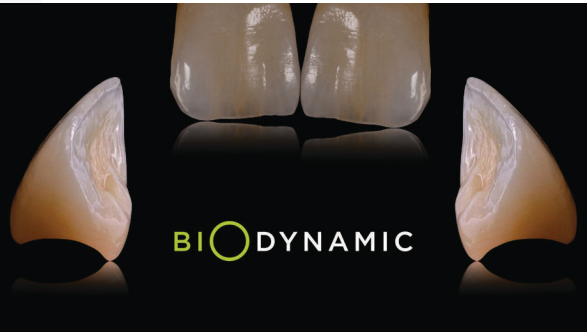


Hight ransparency of occlusal/incisal
Gradation of natural shades and strength
Simplify coloring and increase work efficiency
16 VITA Classical shades



GALLERY
BIODYNAMIC

Natural gradation of shades
Excellent strength to with stand margin chipping and fracture
Gradation block with the same strength from cervical to incisal
16 VITA Classical shades



PRESHADE BLOCK



SIZE

DiskType (Ø =95/98)
14mm
16mm
18mm

Translucency



Strength



Esthetics



Strength

800(±50)MPa

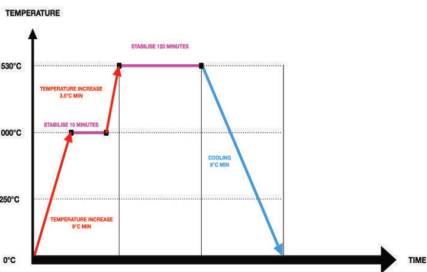
Translucent

49%

Indication

VENEERS
INLAYS
ANTERIORS CROWNS
POSTERIORS CROWNS
3UNIT BRIDGES

Sintering Schedule



SIZE

DiskType (Ø =95/98)
12mm
14mm
16mm
18mm
20mm
22mm
25mm

Translucency



Strength



Esthetics



Strength

1200(±100)MPa

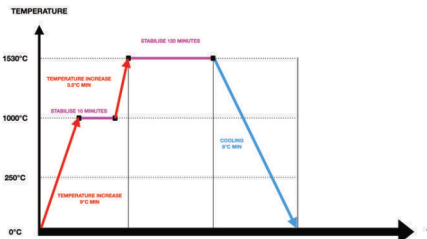
Translucent

45%

Indication

VENEERS
INLAYS
ANTERIORS CROWNS
POSTERIORS CROWNS
3UNIT BRIDGES

Sintering Schedule



SIZE

DiskType (Ø =95/98)
12mm
14mm
16mm
18mm
20mm
25mm

Translucency



Strength



Esthetics



Strength

1200+600(±100)MPa

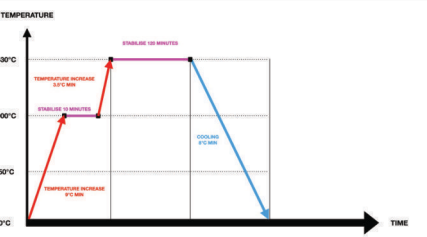
Translucent

49%

Indication

VENEERS
INLAYS
ANTERIORS CROWNS
POSTERIORS CROWNS
3UNIT BRIDGES

Sintering Schedule



WHITE BLOCK



SIZE

DiskType (Ø =95/98)
14mm
16mm
18mm

Translucency

Strength

Esthetics

Strength

600(±50)MPa

Translucent

49%

Indication

VENEERS
INLAYS
ANTERIOR CROWNS

Sintering Schedule



SIZE

DiskType (Ø =95/98)
12mm
14mm
16mm
18mm
20mm
22mm
25mm

Translucency

Strength

Esthetics

Strength

1200(±100)MPa

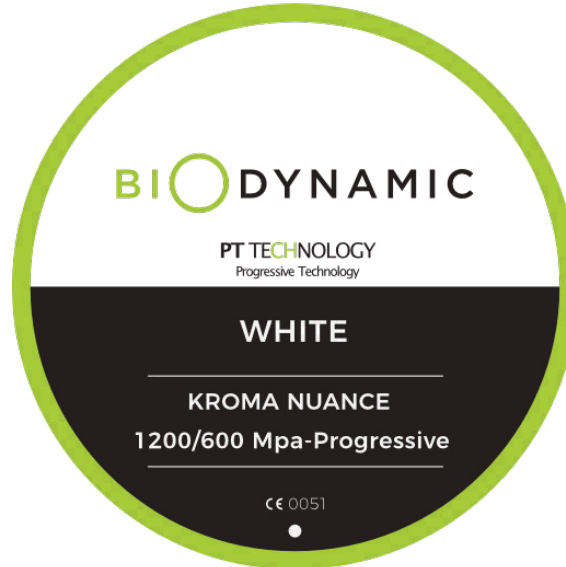
Translucent

45%

Indication

VENEERS
INLAYS
ANTERIOR CROWNS
POSTERIOR CROWNS
3UNIT BRIDGES
EXTENDED BRIDGES
COMPLETE REHABILITATIONS

Sintering Schedule



SIZE

DiskType (Ø =95/98)
12mm
14mm
16mm
18mm
20mm
25mm

Translucency

Strength

Esthetics

Strength

1200(±100)MPa

Translucent

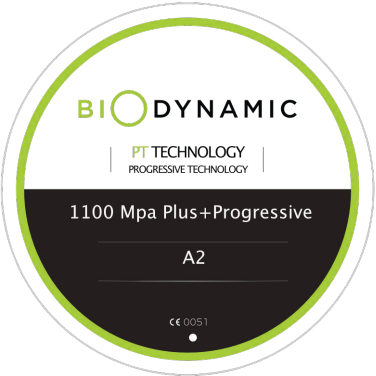
49%

Indication

VENEERS
INLAYS
ANTERIOR CROWNS
POSTERIOR CROWNS
3UNIT BRIDGES
EXTENDED BRIDGES
COMPLETE REHABILITATIONS

Sintering Schedule

1100 Mpa Plus + Progressive Technology



SIZE

DiskType (Ø =95/98)
14mm
18mm
22mm
25mm

Translucency



Strength



Esthetics



Strength

Incisal 1100(±0)MPa

Cervical1100(±0)MPa

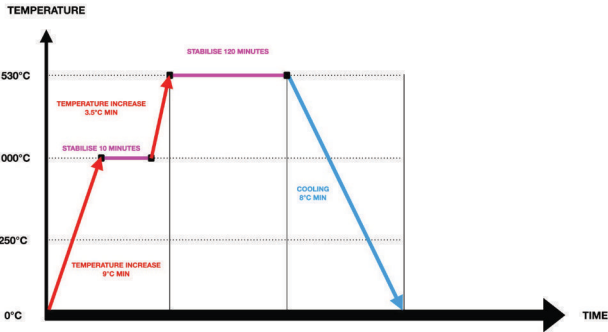
Translucent

49%

Indication

VENEERS
INLAYS
ANTERIOR CROWNS
POSTERIOR CROWNS
3UNIT BRIDGES

Sintering Schedule



The new 1100 Mpa progressive pre-colored zirconia differs from othersmultilayer zircons for having the mixture of powders that advances with technology

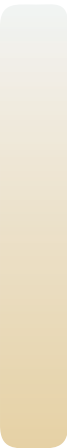
"PT TECHNOLOGY", and not by layers.

The dentin-enamel transition lines will never be visible. In addition, they have

added light grayish blue pigments in the enamel part to give greater unbleached naturalness.

The new 1100 Mpa Progressive Precolored is sold in all the colors of the Vita range.

It is a Medical Device Class 2A Certificate CE 0051



Translucent

49%

47%

45%

Strenght

1100(±0)MPa

1100(±0)MPa

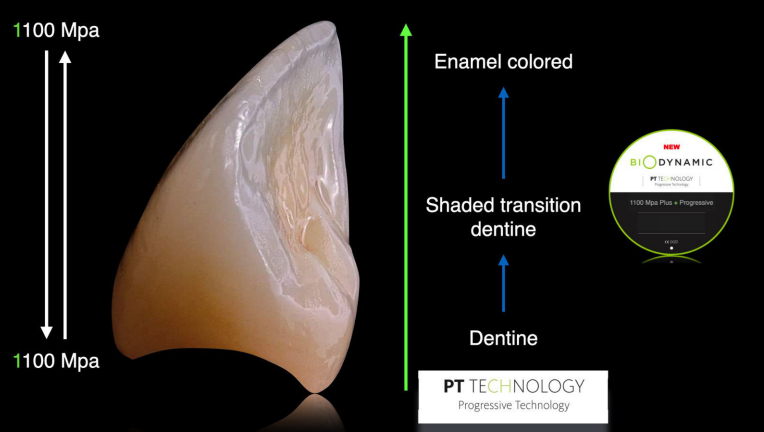
1100(±100)MPa

LayerPortion

30%(incisal)

40%(medio)

30%(cervical)



Z-FLEX

FLEXIBLE TECHNOLOGY



H

DiskType
(Ø=98)
16mm
22mm

The density of Z-FLEX is **>6.035 g cm³**. There are no open porosities

The Vicker Hardness **1.250 HV**

The fracture toughness is **7 MPa · m^{1/2}**.

The modulus of elasticity (Young's modulus), which describes the relationship between strain and deformation in the deformation of a solid body with linear elastic behaviour, is given as **210 GPa**

The Weibull modulus is **> 22**. Z-FLEX is a class 2A Medical Device manufactured in Germany.

CE 0483.

important: zflex is available in color A2 and diameter 98

Z-FLEX is a partially stabilised material of the TZP type (Tetragonal Zirconia Polycrystals). Its composition

comprises approximately 94% zirconium

zirconium dioxide (ZrO₂ / HfO₂), about 5% yttrium oxide (Y₂O₃) and < 1% aluminium oxide (Al₂O₃).

(Al₂O₃). The aluminium oxide content also serves to increase strength.

A novelty in the field of dental zirconium dioxides is the addition of an additional stabiliser, which gives the material a basic elasticity that is around 30% higher and thus a significantly lower

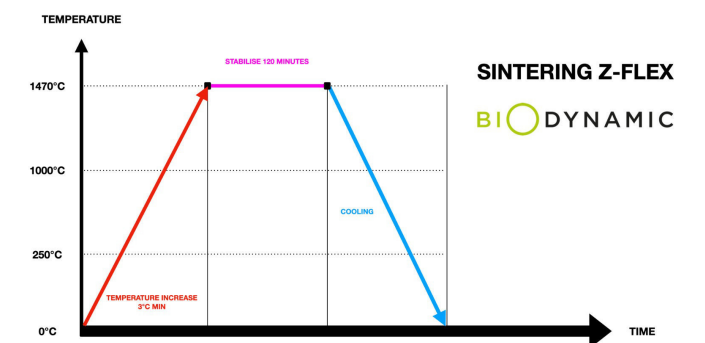
susceptibility to tensile stress significantly lower than comparable products.

In addition to the fabrication of conventional indications, such as copings and bridges,

Z-FLEX is particularly suitable for the fabrication of substructures, implant bars and natural dentition. It

replaces metal, carbon fibre, glass fibre and peek.

Sintering Schedule



HdueOCOLORS

HdueOWater-based colors for Zirconia coloring at phase “GREEN”

Universal colors for all types of Zirconia. Specific for brush technique. Following the BioDynamic protocols, highly efficient with small quantities to obtain excellent results. Droppers are available in convenient packages of 20 ml and 15 ml, in order to keep the liquid always clean



EFFECTS



DENTINE



INSIDE IN

EFFECTS

BLUE	BROWN	GREY
OPAL	ORANGE	PINK
T1 GREY	T2BLUE	VIOLET



DENTINE

H2A1	H2A2	H2A3
H2A3,5	H2A4	H2B1
H2B2	H2B3	H2B4
H2C1	H2C2	H2C3
H2C4	H2D2	H2D3



INSIDE IN

CROMA A	CROMA D
CROMA B	GREY-IN
CROMA C	VIOLET IN
	BLUE IN



BIODYNAMIC

ACCESSORIES

BIONANO SCAN GHOST



- Volatile matting agent for 3D optical laser scanning
- Sublimation time 1/3 hours depending on the object and the ambient
- Suitable for molded resin models (they must not be steamed or washed, risking to deform them)
- Excellent wettability on surfaces
- Free of toxic agents
- Leave a white surface on the object
- The layer of dust sublimates and evaporates without leaving residues
- The post cleaning of the parts is not necessary
- No residual dust during spraying
- Protects the laser fan and the camera

BIONANO SCAN PERMANENT



BIONANO SCAN PERMANENT is a brush-on type formula that does not create any microscopic dust, is applied with the brush and remains permanently on the object. It is suitable for scanning complex cases. It is removed with a solvent such as acetone and steam

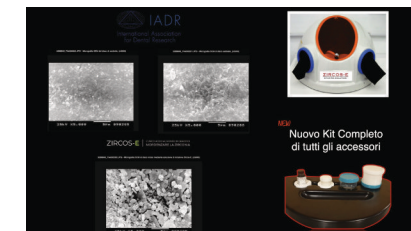
BIONANO SCAN WASHABLE



BIONANO SCAN WASHABLE is a brush-on type formula that does not create any microscopic dust, it is applied with a brush. It is water-based and is easily removed with a brush, towel or steam..

ZIRCOS-E STARTER SET

The starter set includes:
1 Protective box for processing
Set of 4 bottles of 50 ml of etching solution
Set of 2 containers (1 large and 1small)



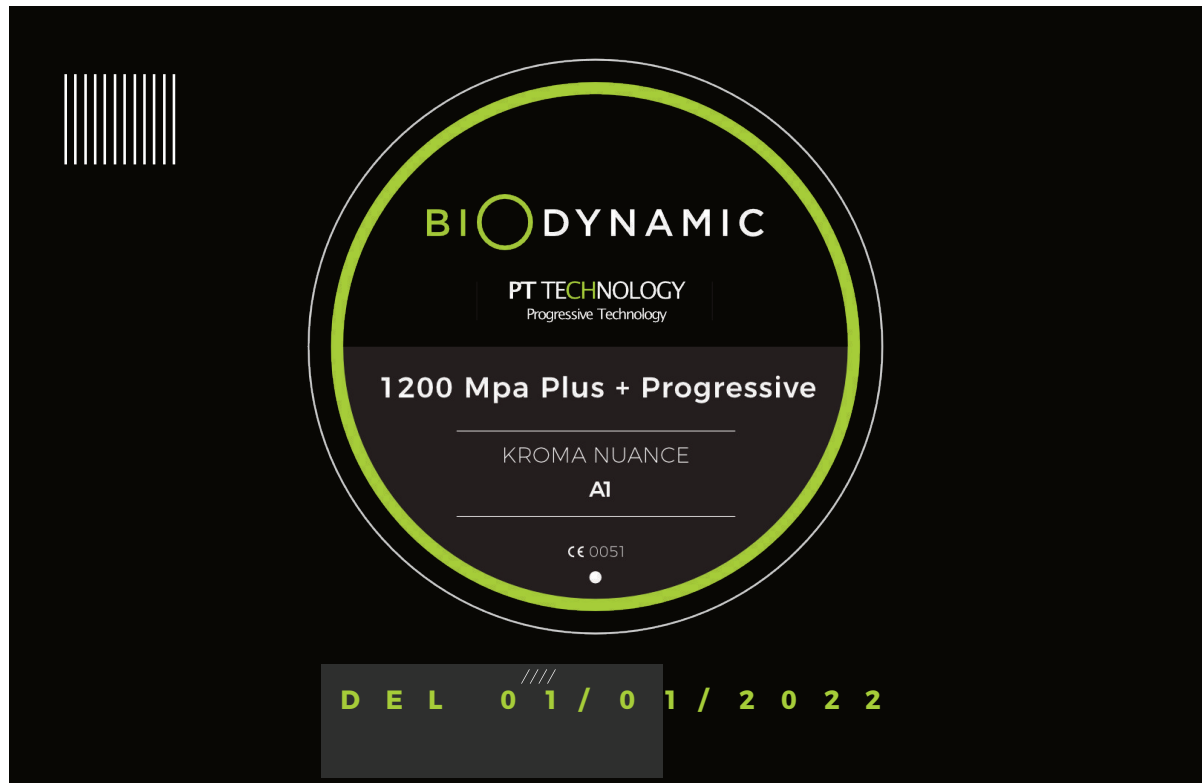
ETCHING SOLUTION

N°1 50 ML Bottles of Etching Solution



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BIODYNAMIC.DENTAL

Via Bassetta N°3

43037 Lesignano de' Bagni (PR) - Italy

Phone +39 05215703319

EXPORT MANAGER: +39 3288075617

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-  facebook/Bio Dynamic Zr
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