



Ruthinium DISC



ruthinium.it

Ruthinium DISC

**HIGH-MOLECULAR-WEIGHT
CROSS-LINKED** PMMA DISCS FOR
CAD/CAM TECHNOLOGY.
MAXIMUM DETAIL ACCURACY.



MADE
IN ITALY



100%
CASTABLE

Ruthinium DISC



Ruthinium Disc Monolayer

Formats

Ø 98,5
mm

Z

Ø 95
mm

A

Ø 72
mm

Thicknesses
in mm

Ø 98,5: 14 - 16 - 18 - 20 - 25 - 30
Ø 95: 16 - 18 - 20 - 25
Ø 72: 16 - 20 - 25

CE
0425

MD

CLASS IIA



Teeth Line

For the fabrication of long-term temporary crowns and bridges, on both natural teeth and implants. It ensures **high resistance to masticatory loads and long-lasting colour stability.**

Shades A1 A2 A3 A3,5 A4 B1
B2 B3 B4 BL C1 C2
C3 C4 D2 D3 D4 RX*



Pink Line

For milling complete or partial removable denture bases, gingival flanges and structures for implant-supported screw-retained dentures. It offers **excellent dimensional stability and a natural-looking gingival appearance.**

Shades PINK OP1



Therapeutic Line

Ideal for bite guards, splints and surgical guides. The transparent version ensures maximum discretion, while the coloured versions facilitate **visual thickness control and patient management.**

Shades NEUT BLUE
ORNG YLLW

*Radiopaque PMMA is intended to provide a radiographically visible solution to facilitate diagnosis and post-treatment clinical monitoring.



Benefits



High detail reproduction
during milling



Abrasion resistance



No chipping, even at **extremely thin thicknesses**



Fluorescence



Completely castable, leaves no residue



Chromatic stability

High-molecular-weight cross-linked PMMA discs for CAD/CAM technology. Ideal for the fabrication of long-term temporary bridges and crowns, denture bases and therapeutic devices (bite guards).

They ensure maximum detail reproduction, resistance even at thin thicknesses and completely residue-free combustion, making them 100% castable.

NIOM Accredited Tests

Ruthinium Disc

FLEXURAL STRENGTH	119 MPa
WATER SORPTION	25 µg/mm³
SOLUBILITY	0.4 µg/mm³

Ruthinium Disc Multilayer

FLEXURAL STRENGTH	106 MPa
WATER SORPTION	24 µg/mm³
SOLUBILITY	0.4 µg/mm³

Ruthinium Disc Multilayer

Formats



Z



A



Thicknesses
in mm

Ø 98,5: 14 - 16 - 18 - 20 - 25 - 30
Ø 95: 16 - 18 - 20 - 25
Ø 72: 16 - 20 - 25

Shades A1 - A2 - A3 - A3,5 - A4 - B1 - B2 - B3 - B4 - BL - C1 - C2 - C3 - C4 - D2 - D3 - D4 - RX*

*Radiopaque PMMA is intended to provide a radiographically visible solution to facilitate diagnosis and post-treatment clinical monitoring.

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MD

CLASS IIA



Multilayer

This is the standard multilayer disc, designed to provide excellent aesthetics through a natural colour transition. The layers reproduce the tooth's natural stratification, transitioning from more opaque, saturated dentine to more translucent enamel.



Multilayer SC

The layer distribution is intelligently designed to ensure an optimal colour transition even in smaller formats and thinner thicknesses. By optimising the visual blending of the layers, the restoration can be positioned very efficiently within the disc during CAM processing.

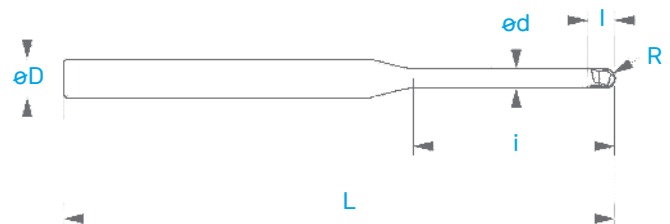


Recommended milling strategy

Use tools of decreasing diameter and adjust the milling parameters as shown in the diagrams to achieve **precision and surface quality while preserving the integrity of the material**. The values shown are indicative and must be verified with the tool supplier and adapted to the milling machine used.

RECOMMENDED WORK STRATEGY

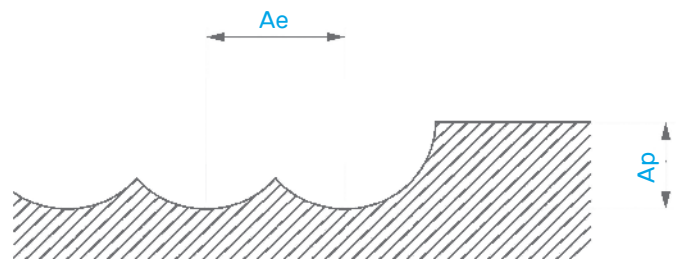
Ø TOOL	Nr CUTS	R	I	i	ØD	L
2	2	1	1.6	20	3	50
1	2	0.5	0.8	16	3	50
0.6	2	0.3	0.5	10	3	50



ØD = Constrained by clamps measurement of the milling machine
TOOL TPE AND MILLING PARAMETERS = recommended values and work strategy, consult with tools supplier.

MILLING PARAMETERS

TURNS (S)	ADVANCE (F) XY	ADVANCE (F) Z	Ae (XY)	Ap (Z)
18500	1200	800	1	0.5
25000	1000	600	0.15	0.08
30000	500	500	0.05	0.05



Ruthinium Disc Easy

Formats

Ø 98,5
mm

Thicknesses
in mm and
Shades

A2 - A3:
16 - 20

Neutral:
16 - 20 - 25



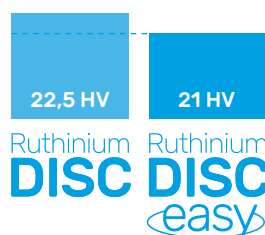
PACKx5

Product sold in a
5-piece bag

CE

MD

CLASS I



Softer, more malleable.

The compound is formulated to be less rigid during milling. This means **less wear on milling tools in the laboratory and optimised milling speed**, while maintaining excellent detail reproduction and preventing chipping, even on edges and thin thicknesses.

Products	Code
Ruthinium Disc	7900087
Ruthinium Disc Z	7900101
Ruthinium Disc A	7900089
Ruthinium Disc Multilayer	7900088
Ruthinium Disc Z Multilayer	7900102
Ruthinium Disc A Multilayer	7900090
Ruthinium Disc Multilayer SC	7900099
Ruthinium Disc Z Multilayer SC	7900103
Ruthinium Disc A Multilayer SC	7900100



Scan the QR code and
download the electronic
Instructions for Use

Products	Code
Ruthinium Disc Easy	7900095



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