SPECTRA
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DENTAL PRESS CERAMIC INGOTS

A spectrum of choice.
One signature format.



HT / MT / LT / MO / HO / OPAL

One standard short size throughout the collection.

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THE SPECTRA COLLECTION

Shape. Shade. Light.

A considered palette for the dental laboratory. Select the optical family, refine the shade, and keep the same short ingot format across the collection.



A STUDY IN CERAMIC FORM AND SURFACE

06

Product families

HT, MT, LT, MO, HO and Opal.

70

Type-and-shade options

20 + 20 + 20 + 5 + 3 + 2.

01

Standard size

One short format throughout.

All 16 natural shades plus BL1-BL4 in HT, MT and LT, with numbered MO, HO and Opal options. The complete assortment is on page 7.

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TRANSLUCENCY

Two ways to work with light.



HT

HIGH TRANSLUCENCY

An open optical character.

High translucency with a complete A-D palette: 16 natural shades, complemented by BL1-BL4 Bleach options.

NATURAL SHADES / 16

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

BLEACH / 4

BL1	BL2	BL3	BL4

MT

MEDIUM TRANSLUCENCY

The middle of the spectrum.

An intermediate optical character with the same complete selection: 16 natural shades plus four Bleach options.

NATURAL SHADES / 16

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

BLEACH / 4

BL1	BL2	BL3	BL4

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MT BLEACH

Brightness, in four choices.

Explore the lighter end of the Spectra palette with BL1, BL2, BL3 and BL4 in medium translucency.



BL1 BL2 BL3 BL4

Bleach beyond MT.

All four Bleach codes are also available in HT and LT. Select the optical family and shade as separate parts of the order.

ONE STANDARD SIZE

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LOWER TRANSLUCENCY / OPACITY

A different optical starting point.



LT

LOW TRANSLUCENCY

A complete shade palette.

A lower-translucency profile across all 16 natural shades, with BL1-BL4 to complete the lighter end of the range.

NATURAL SHADES / 16

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

BLEACH / 4

BL1	BL2	BL3	BL4

MO

MEDIUM OPACITY

A numbered palette.

Five numbered group shades provide a medium-opacity starting point. Order this family by MO designation and number.

GROUP SHADES / 5

0	1	2	3	4

MO 0 / MO 1 / MO 2 / MO 3 / MO 4

ONE SHORT INGOT FORMAT

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ADDITIONAL OPTIONS

Complete the collection.



HO

HIGH OPACITY

Three opacity shades.

The high-opacity family is available in HO 0, HO 1 and HO 2, using the same standard short format as the collection.

GROUP SHADES / 3

0	1	2

Opal

OPAL OPTIONS

Two distinctive codes.

Opal 1 and Opal 2 complete the collection. Retain the Opal designation when specifying the family and shade.

OPAL OPTIONS / 2

1	2

One standard short size for HO and Opal.

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THE COMPLETE RANGE

Find your shade.

70 type-and-shade options. One standard short ingot format.

FAMILY	NATURAL / GROUP SHADES	BLEACH	QTY
HT High translucency	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4	BL1 BL2 BL3 BL4	20
MT Medium translucency	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4	BL1 BL2 BL3 BL4	20
LT Low translucency	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4	BL1 BL2 BL3 BL4	20
MO Medium opacity	MO 0 MO 1 MO 2 MO 3 MO 4	-	5
HO High opacity	HO 0 HO 1 HO 2	-	3
Opal Opal options	Opal 1 Opal 2	-	2

Specify family + shade.

Examples: MT BL1 / LT A3.5 / MO 2 / HO 1 / Opal 2

Product images are illustrative. Confirm the final shade against a physical shade guide and the product label.

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SPECTRA PRESS / MATERIAL SCIENCE

Strength, precisely stated.

Lithium disilicate glass ceramic. All values below are from Spectra PRESS.

> 350 MPa
Actual bending strength reported in the IFU

520 °C
Actual transformation temperature Tg

Technical properties

PROPERTY	SPECIFICATION	ACTUAL VALUE
Thermal expansion / 25-500 °C [10^-6 K^-1]	10.0 ± 0.5	**10.0**
Transformation temperature Tg [°C]	510 ± 20	**520**
Bending strength [MPa]	>= 300	**> 350**
Chemical solubility [µg/cm²]	< 100	**< 40**

DIN EN ISO 6872:2019 Type 2 / Class 3 / Sub-class a

Major constituents in the glass-ceramic structure: SiO2, Li2O, K2O, Al2O3, ZnO, ZrO2 and P2O5.

PROPERTY DEFINITIONS

Bending strength is not hardness. The Spectra IFU does not report a Vickers hardness value. Tg is a material transformation temperature, not a pressing or firing programme.

SOURCE: SPECTRA PRESS IFU 05/2026 / p. 33

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WORKING WITH SPECTRA

Select your technique.

The Spectra workflow, organised by optical family and finishing route.

Stain & glaze

Full-contour pressing followed by surface characterisation and glaze.

Cut-back

A reduced contour completed with selected incisal ceramic.

Layering

An anatomical framework completed with dentine and incisal ceramic.

OPTICAL FAMILY		Staining	Cut-back	Layering
HT	High translucency	✓	✓	–
MT	Medium translucency	✓	✓	–
LT	Low translucency	✓	✓	*
MO	Medium opacity	–	*	✓
HO	High opacity	–	*	✓
Opal	Impulse / opal in IFU	✓	✓	–

✓ Recommended route

* Source clarification required

* LT layering is illustrated on IFU pages 5 and 18, but is marked "not recommended" in its correlation table (p.30). MO / HO cut-back is recommended in that table, while the detailed cut-back pages list narrower selections. Confirm these combinations before use.

Opal is the colour range named under Impulse in the Spectra IFU. Restoration recommendations are shown on the following page.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 5-8, 17-18, 30

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SPECTRA CORRELATION TABLE

A guide to the right family.

Recommended restoration types from the Spectra PRESS instructions.

RESTORATION	HT	MT	LT	MO	HO	Opal
Veneers	✓	✓	✓	–	–	✓
Inlays	✓	*	–	–	–	✓
Onlays	✓	✓	✓	–	–	✓
Anterior crowns	✓	✓	✓	✓	✓	–
Posterior crowns	–	✓	✓	✓	✓	–
3-unit bridges	–	✓	✓	✓	✓	–

Reading the table

Ticks reproduce the IFU recommendations. A dash means "not recommended" in its aesthetic correlation table; it is not a complete list of clinical contraindications. The IFU states that selection must also meet its permitted indications and dimensional requirements.

> **MT INLAYS / SOURCE DIFFERENCE**
>
> The inlay wax-up page lists MT, HT and Impulse (p.8), while the correlation table marks MT inlays as not recommended (p.30). Confirm the intended MT protocol before use.

Bridge scope: 3-unit anterior or premolar bridges, with no terminal abutment beyond the second premolar. Minimum connector and pontic limits follow on page 11.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 3, 29-30

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01 / PLAN THE RESTORATION

Design within the limits.

Use a deep chamfer or rounded shoulder; round all internal angles.

Provide adequate retention and preparation height for conventional cementation. At least 50% of the restoration dimension must be high-strength press ceramic; compensate excess space in the pressed framework, not in layering porcelain.

RESTORATION	STAINING		CUT-BACK		LAYERING	
	Circular	Incisal / occlusal	Circular	Labial / occlusal	Circular	Incisal / occlusal
Veneer	0.3-0.6	0.4-0.7	0.6	0.4	-	-
Inlay	1.0	1.0	-	-	-	-
Onlay	1.5	1.5	1.5	0.8	-	-
Anterior crown	1.2	1.5	1.2	0.4	0.6	0.6
Molar crown	1.5	1.5	1.5	0.8	0.8	0.8
Anterior bridge	1.2	1.5	1.2	0.8	0.8	0.8
Premolar bridge	1.5	1.5	1.5	0.8	0.8	0.8

Dimensions in mm. Categories and values retain the IFU table wording.

16 mm²
Minimum bridge connector

11 mm
Max. anterior pontic width

9 mm
Max. premolar pontic width

Frameworks for layering require anatomically reduced tooth form. Do not manufacture restorations below the stated wall thicknesses or connector sections. The IFU does not recommend use in bruxism, parafunction or substantially reduced residual dentition.

The detailed clinical preparation requirements remain in the complete IFU.

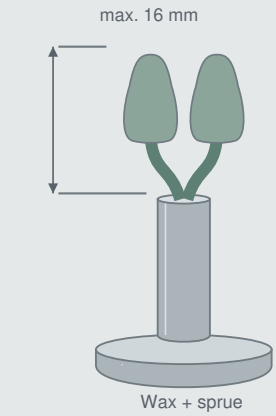
SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 3-5

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Create a controlled flow.

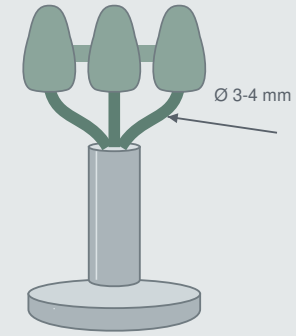
Use residue-free wax. Apply two spacer layers for crowns, partial crowns and veneers, stopping 1 mm short of the margin. For inlays/onlays use two wall layers and three on the floor. Reduce anatomy for cut-back or layering without sharp edges.

01



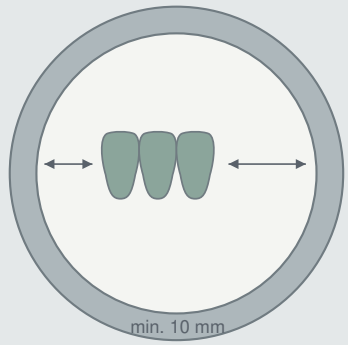
Sprue + restoration

02



Bridge sprueing

03



Distance to silicone ring

Ø 3-4 mm
Sprue diameter

3-6 mm
Sprue length

45-60°
Attach in flow direction

Attach at the thickest section; round both junctions. Sprue plus object: maximum 16 mm. Maintain approximately 10 mm clearance to the silicone ring (the IFU diagram specifies a minimum of 10 mm). Cervical margins face the ring.

Determine the wax weight

Loaded press base weight minus empty base weight = wax weight.

WAX WEIGHT	IFU INGOT ALLOCATION
Up to 0.7 g	1 ingot × 3 g
Up to 1.9 g	2 ingots × 3 g

This allocation is only for the 3 g ingots specified in the Spectra IFU. Confirm the supplied ingot mass before applying it to an order.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 5-10

ORIGINAL SCHEMATICS / NOT TO SCALE

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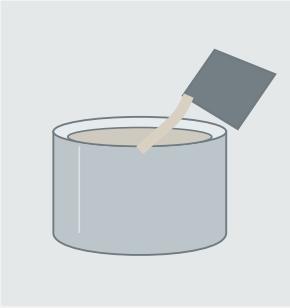
03 / THE PRESSING SEQUENCE

Prepare. Heat. Press.

Keep the sequence continuous once the hot ring leaves the burnout furnace.

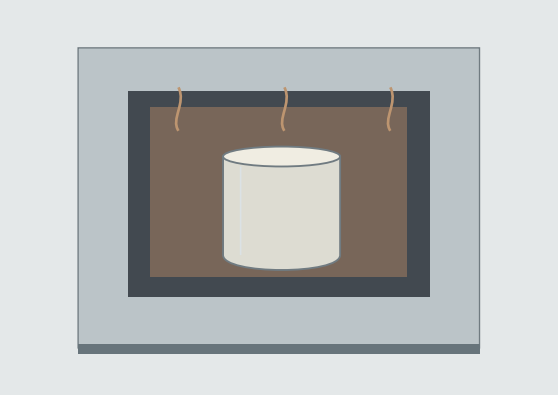
01 / INVEST





Follow the investment manufacturer's instructions. Fill the internal crown volume first, then the ring, without bubbles. Fit the cover. After setting, remove excess material so the muffle stands upright.

02 / PREHEAT THE RING



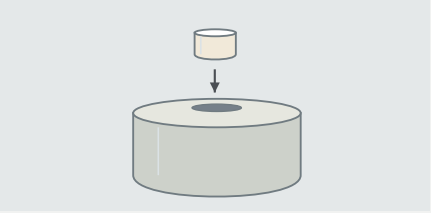
850 °C
Burnout temperature

60 min
Minimum hold

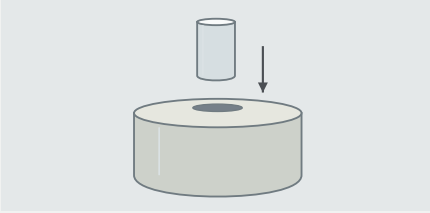
Use the investment manufacturer's instructions. Do not preheat the ingots or single-use plunger; insert them into the hot muffle immediately before pressing.

03 / LOAD & START

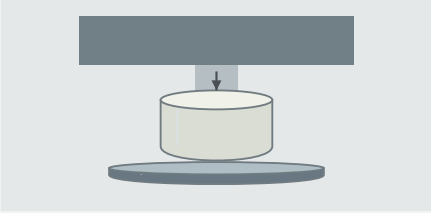
Run the empty press-furnace programme once for uniform heating. Transfer the hot ring, insert ingot then plunger, stand the ring upright and start the press programme immediately.



Insert the ingot



Add the plunger



Load upright and start

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 11-13

ORIGINAL SCHEMATICS / NOT TO SCALE

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04 / PRESSING PARAMETERS

Match the furnace programme.

Reference values from the Spectra PRESS IFU. Verify on the actual furnace.

700 °C	60 K/min	700 °C	3 min
Start temperature	Heating rate	Vacuum start	Pressing time

FURNACE	MUFFLE [g]	FINAL TEMP. [°C]	HOLD [min]	PRESSURE / SETTING
Zubler Vario Press 300	100	900	18	Low
	200	915	20	Low
Dekema press-i-dent 654	100	910	15	Level 7
	200	930	15	Level 7
Dentsply Multimat NTXpress	100	930	15	-
	200	950	18	-
Ivoclar Programat EP 3000	100	900	18	E 600*
	200	915	20	E 600*
Ugin dentaire	100	930	15	-
	200	950	18	-

* Set the Ivoclar programme E value to E 600. A dash means that the source does not state a pressure setting.

The IFU describes these temperatures as approximate guide values. Furnace calibration and equipment differences may require adjustment; do not transfer a programme to another furnace without verification.

SOURCE: SPECTRA PRESS IFU 05/2026 / p. 31

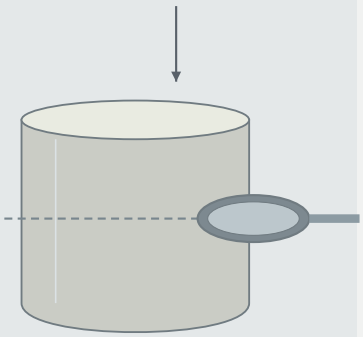
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05 / REVEAL THE RESTORATION

Protect the pressed ceramic.

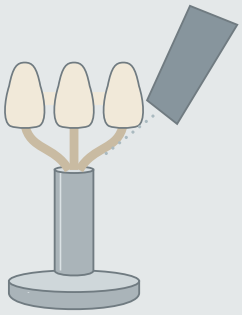
Reduce blasting pressure as the restoration becomes visible.

01



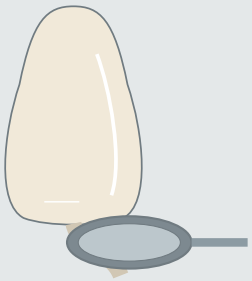
Mark plunger position

02



Glass beads / 50 µm

03



Light pressure / low speed

01 / LOCATE

Mark the plunger end position on the ring and remove excess investment with a cutting wheel.

02 / DIVEST

Use 50 µm polishing / glass beads at 4 bar until the pressed objects become visible. Complete divesting at 2 bar.

03 / FINISH

Cut sprues with instruments suitable for all-ceramics. Use low speed and light pressure; avoid excessive grinding and heat.

FIT & ROUND

Check the fit on the segmented model with occlusion spray. Relieve contact points with a diamond grinder. Round the former sprue connection to follow the restoration's anatomy.

FINAL CLEANING

Carefully blast the outer surface with aluminium oxide at 1 bar, then steam-clean. Wear eye protection and use dust extraction or a suitable dust mask during finishing.

Do not confuse the glass-bead divesting stage with the final aluminium-oxide cleaning stage.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 14-15, 35

ORIGINAL SCHEMATICS / NOT TO SCALE

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06 / SURFACE CHARACTERISATION

Bring shade to the surface.

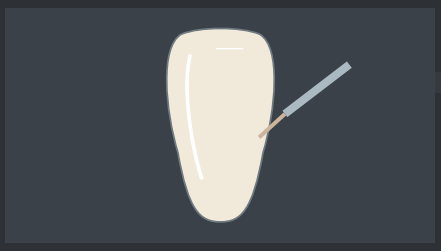
Full-contour pressing, selective characterisation and a controlled glaze layer.



01 / Full-contour wax-up



02 / Finished press ceramic



03 / After stains and glaze



Spectra stains & glaze mixing palette / product illustration

SPECTRA LFU

Finish the surface, then clean thoroughly. Apply glaze LFU paste or mix glaze LFU powder with glaze liquid and apply a thin layer.

Use A-D body shades and effect stains selectively. The IFU provides light fluor options for lighter shades and fluor options for deeper shades.

400 °C	4 min	45 K/min	710 °C
Start	Closing time	Heating rate	LFU glaze / stains

Hold 1 minute without vacuum. Full firing details and natural-glaze settings: page 18.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 16, 20, 25-28, 32

ORIGINAL SCHEMATICS / NOT TO SCALE

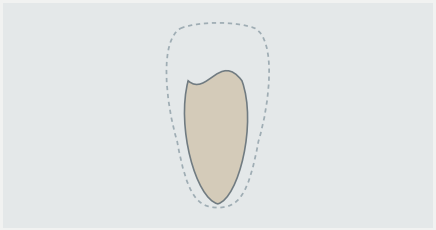
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07 / BUILD FORM & DEPTH

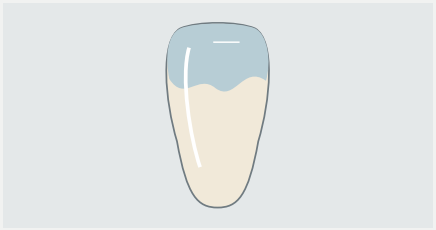
Layer with intention.

Work in small increments while maintaining the required pressed framework.

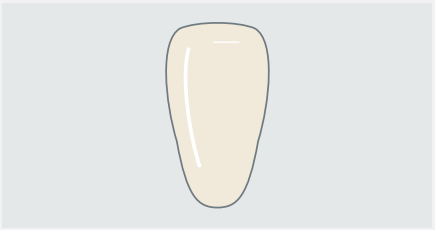
CUT-BACK / HT, MT, LT



Pressed cut-back form



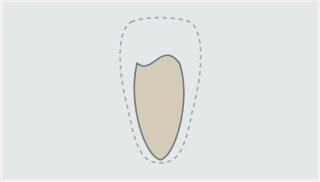
Incisal build-up



Stained and glazed

Complete the reduced contour with incisal ceramic, fire, finish and clean, then characterise and glaze. Use the guide on page 9 for source differences in ingot selection.

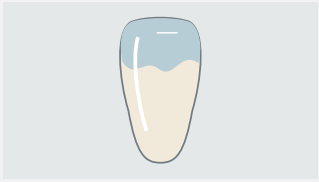
LAYERING / DENTINE & INCISAL



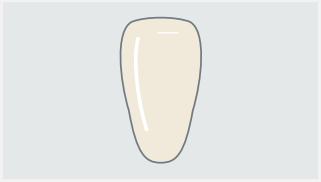
Pressed framework



Dentine build-up



Incisal build-up



Final glaze

DIAGRAM COLOURS Framework · Dentine · Incisal · Not final shade colours

Build up in small portions

Mix Spectra dentine / incisal powder with modelling liquid to a creamy consistency. Place small portions cervically and interdentally, condense by light vibration, then complete the anatomy.

Two layering approaches

Nature: a thin opaque-dentine layer, dentine body and incisal cover. Individual: add modifiers, mamelons, transpa and opal materials to reproduce internal structure.

CORRECTIONS & VISUAL CONTROL

Use Spectra correction powder for small additions after cleaning (720 °C programme). Coloured modelling liquids aid placement; their colour burns out during firing.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 17-19, 21-24

ORIGINAL SCHEMATICS / NOT TO SCALE

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08 / FIRE & COMPLETE

Control the thermal cycle.

Shared starting conditions with distinct final temperatures for each material.

400 °C	4 min	45 K/min
Starting temperature	Closing time	Heating rate

FIRING ROUTE	FINAL [°C]	VACUUM START [°C]	VACUUM END [°C]	HOLD* [min]
Dentine / incisal - 1st bake	780	450	780	1
Dentine / incisal - 2nd bake	770	450	770	1
Natural glaze	760	450	760	1
LFU glaze / stains	710	-	-	1
Correction ceramic	720	450	720	1

* All holding times are without vacuum. A dash means no vacuum for LFU glaze / stains.

SLOW OPENING AFTER LAYERED FIRINGS

The IFU requires delayed / slow furnace opening after every layered bake, beginning with the dentine bake, particularly for voluminous ceramic layering.

The IFU allows approximately 20-30 °C higher dentine / incisal temperatures for larger porcelain masses or greater furnace loads. Check the actual result and furnace calibration. Listed settings are guide values determined on a Zubler Vario 300.

SOURCE: SPECTRA PRESS IFU 05/2026 / pp. 19-20, 24, 28, 32

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09 / COMBINE THE CERAMICS

Keep the shade system aligned.

Natural-shade combinations reproduced from the Spectra PRESS IFU.

TARGET SHADE	GROUP	HT / MT / LT INGOT	MO INGOT	DENTINE	INCISAL
A1	A	A1	MO 1	A1	1
A2	A	A2	MO 1	A2	2
A3	A	A3	MO 2	A3	2
A3.5	A	A3.5	MO 2	A3.5	4
A4	A	A4	MO 4	A4	4
B1	B	B1	MO 1	B1	1
B2	B	B2	MO 1	B2	2
B3	B	B3	MO 3	B3	3
B4	B	B4	MO 3	B4	4
C1	C	C1	MO 1	C1	2
C2	C	C2	MO 4	C2	2
C3	C	C3	MO 4	C3	3
C4	C	C4	MO 4	C4	4
D2	D	D2	MO 2	D2	1
D3	D	D3	MO 4	D3	2
D4	D	D4	MO 4	D4	3

This table covers the 16 natural A-D shades. The full product assortment, including Bleach, HO and Opal options, remains on page 7. Use the physical shade guide and product labels when confirming the final order and restoration shade.

SOURCE: SPECTRA PRESS IFU 05/2026 / p. 29

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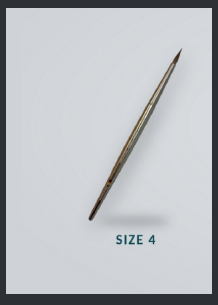
10 / TOOLS & HANDLING

A Spectra workbench.

Spectra brushes and mixing palettes alongside a clean, controlled workflow.



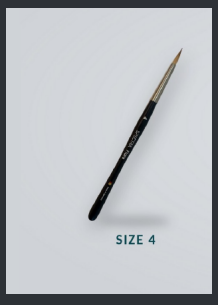
CERAMIC WET PALETTE



MASTER

Natural Kolinsky

Sizes
4 / 6 / 8



FLORA

Synthetic fibres

Sizes
4 / 6 / 8

WORKING CARE

Use eye and dust protection. Handle hot rings with tongs and gloves. Keep waxes, tools and palettes free of alloy residues.

Clean the framework thoroughly before each ceramic application. The IFU warns that contamination from CoCr / NiCr processing can discolour the ceramic.

Storage: 12-38 °C / 40-60% relative humidity. Images illustrate Spectra products.

SOURCE: SPECTRA PRESS IFU 05/2026 / p. 35 / Brush images: Spectra Brushes catalogue 2026

SPECTRA
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Precision begins with the right partner.

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SPECTRA PRESS
Product assortment, technical data and an illustrated laboratory workflow.

Technical source: SPECTRA PRESS IFU, Issue 05/2026. Read the complete IFU before use. Original schematic drawings are illustrative and not to scale.