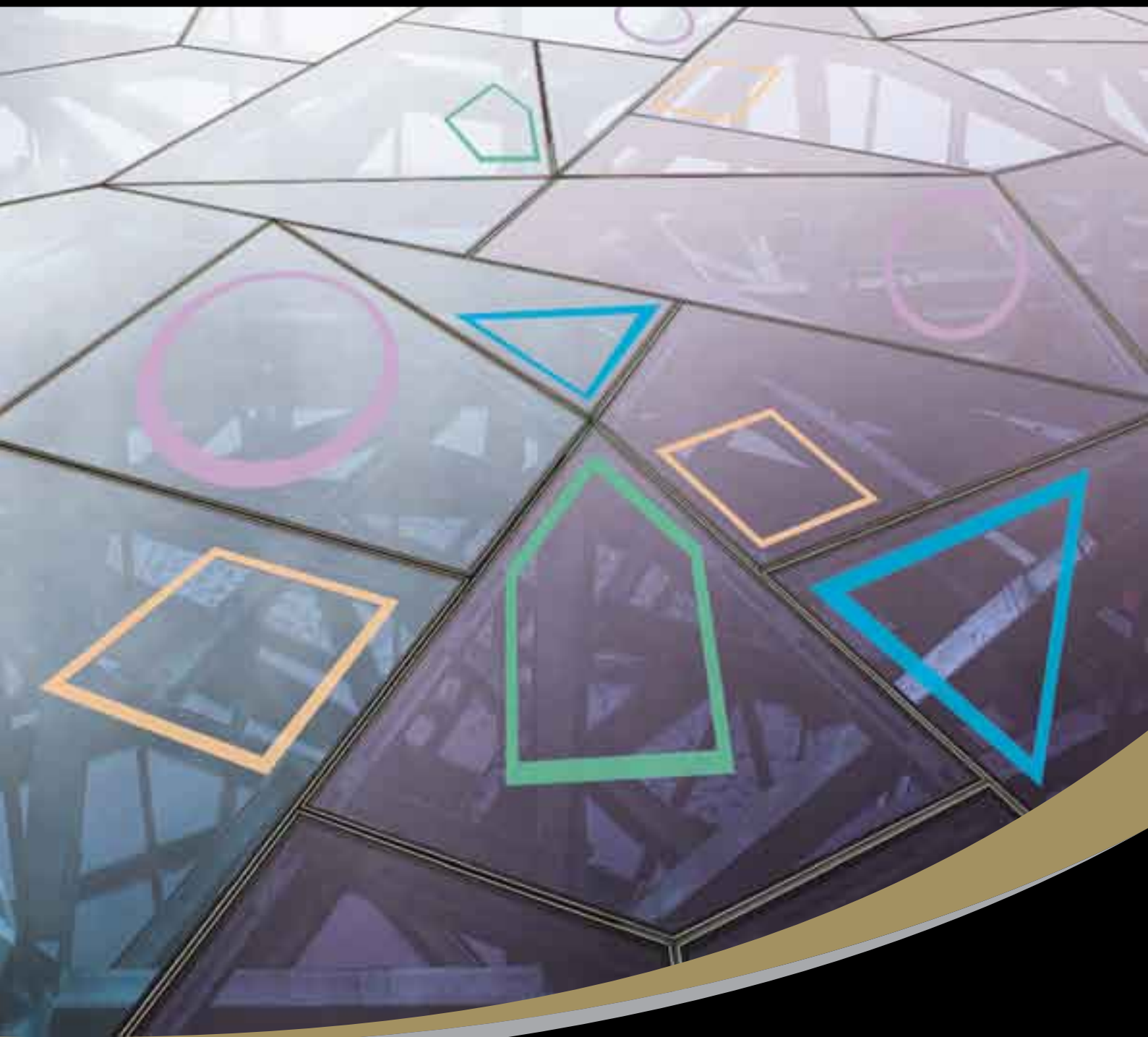


*Portrait*<sup>™</sup> IPN<sup>®</sup>

Cosmo HXL



Mould Charts

DENTSPLY<sup>+</sup>Laboratory



**Portrait™ IPN®**  
Unrivaled performance since 1981... Unmatched tooth variety and selection... Unequivocal evidence of superiority from rigorous scientific evaluations... Portrait IPN also has the unparalleled protection of one of the industry's broadest tooth warranties. Those are just a few of the reasons why countless dental professionals trust Trubyte IPN teeth to satisfy their patients. IPN teeth also offer an exceptional warranty against excessive wear, abrasion, stain, cracking, crazing and loss of lustre. This guarantee ensures optimum function and overall aesthetics. And unlike other hardened plastic teeth, IPN teeth are able to mimic the gradual wear of tooth enamel, while delivering outstanding occlusal integrity and long-lasting aesthetics. The low wear feature is due to a proprietary chemistry that employs an Interpenetrating Polymer Network (IPN). This is formed when a highly engineered cross-linked polymer is combined with a special cross-linked monomer to form a highly wear-resistant double cross link.

For lasting assurance of premium performance, dental professionals turn to Lucitone® 199. Superior impact resistance, breathtaking aesthetics, and fit that's second-to-none make these the gold standard of resins.

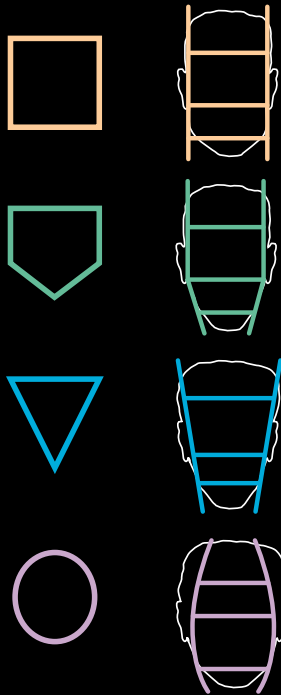
Portrait IPN teeth are available in all 16 A-D shades, as well as two modern bleached shades. These teeth – developed, tested and approved through research involving more than 2,000 dentists and lab technicians from North America – deliver an unmatched combination of aesthetics, function and performance. Each anterior tooth blends three different shaded layers of IPN material, creating five distinct aesthetic zones.

**Four Basic Facial Forms**

The principle of natural aesthetic harmony between face form and maxillary anterior tooth arrangement has been well demonstrated by clinical research and extensive application in many private dental offices.

In essence, the principle is this: There are four basic face form classifications observed in nature. For each of these categories, there is a workable corresponding basic anterior tooth arrangement. Similarly, modifications appearing in the basic face form may be reflected by corresponding modifications in the anterior arrangement.

Below, we describe and illustrate the four face forms. A suggested procedure is to use the Trubyte Tooth Indicator (#98981) to classify the patient by face form. Final customization can be accomplished at the try-in appointment.



**The Square Face**  
In the Square Form, the sides of the face from the hairline to the levels of the condyles to the angles of the jaw are straight and parallel.

**The Square Tapering Face**  
In this form, the sides of the head are parallel from the condyles upward. From the condyles downward along the sides of the face, the outline tapers in to the angles of the jaw.

**The Tapering Face**  
The Tapering Face is widest at the hairline and narrowest at the angles of the jaw. The lines converge in toward the jaw.

**The Ovoid Face**  
The Ovoid Face is widest through the center at the level of the condyles. It curves upward and downward to form an oval outline.

**The Mould Classification System**  
Steps to Identify and Select Anterior Moulds

**First Number**

Step 1:  
  
Using the classification from the previous page, select the number from 1 to 7 that best represents the patient's facial form.  
  
The number selected is the first character of the mould identification number, located in the upper left corner of the tooth card.

- Classification
- 1. Square
  - 2. Square Tapering
  - 3. Square Ovoid
  - 4. Tapering
  - 5. Tapering Ovoid
  - 6. Ovoid
  - 7. Square Tapering Ovoid

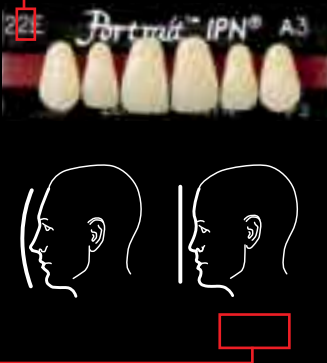


In the ovoid and ovoid combination forms, the mesio-distal aspect of the labial surface of the maxillary centrals is more or less round. In the square, square tapering and tapering forms, it is more or less flat.

**Second Number**

Step 2:  
  
Using a flat device such as the Trubyte Tooth Indicator (#98981), select the number from 1 to 6 that represents both the proportion of the tooth (long, medium or short) as well as the facial contour (straight or curved).  
  
The number selected is the second character of the mould identification number.

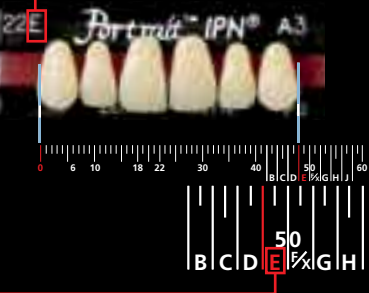
- Proportion and Contour
- Proportion of the Tooth
- 1. Long
  - 2. Medium
  - 3. Short
  - 4. Long
  - 5. Medium
  - 6. Short
- Facial Contour
- Straight
  - Straight
  - Straight
  - Curved
  - Curved
  - Curved



**Letter**

Step 3:  
  
Measure the width of the upper six anterior teeth on the curve, from distal to distal.  
  
The measurement will fall into one of the ranges identified with the letters B through J.  
  
The letter selected is the third character of the mould identification number.

- Width of Upper Six Anterior Teeth on Curve
- B. less than 44.00 mm
  - C. 44.00 to 45.50 mm
  - D. 45.50 to 48.00 mm
  - E. 48.00 to 49.00 mm
  - F/X. 49.00 to 51.50 mm
  - G. 51.50 to 54.00 mm
  - H. 54.00 to 56.00 mm
  - J. 56.00 mm or greater



Some moulds may vary from this standard. Please consult mould chart dimensions.





Once you have selected the upper anterior mould form, simply read across the chart from left to right to combine the suggested corresponding lower anterior form, as well as the appropriate posterior form for accurate articulation.

SUGGESTED ARTICULATIONS AND COMBINATIONS

Trubyte Anteriors		Trubyte Posterior Moulds			
		Non-Anatomical	Semi-Anatomical		Anatomical
Anterior Upper Mould No.	Articulates With Anterior Lower	Portrait 10° IPN Anatoline	Portrait IPN 22° BioStabil	Portrait IPN 33°	Portrait 40° EuroLine
11G	R	332	532	32L	732
11H	S, W	334	533,	34L	734
12E	M, N	332	532	32L	732
12F	N	334	532	34L	734
12G	G, R, V	334	533	32L	734
13E	H	330	530	32L	730
21C	C	330	530	30L	730
21D	F	330	530	30L	730
21E	O	332	530	30L	732
21G	W	334	532	34L	734
21J	I, K1, Rx, Z	334	532	34L	734
21X	W	332	533	32L	732
22C	U	330	533	30L	730
22E	H	330	533,	30L	732
22G	O, P	334	532	32L	732
22H	P	334	530	32L	734
24F	F, G, H	332	530	30L	732
25G	R	334	532	32L	734
31F	J, O, S	334	533	32L	734
32B	C	330	532	30L	730
32E	H	332	533	30L	732
32G	S	334	532	32L	732
41J	I, K1, Rx	334	530	32L, 34L	734
42D	F	330	532	30L	732
42F	H	332	533	32L	732
42G	O, P	332	532	32L	732
43D	C	330	532	30L	732
43F	M, N,	330	533	30L	730
45F	J, O	332	530	32L	730
45H	R, V	332	530	32L	730
52C	C, D	330	532	30L	734
54F	J, N	332	532	32L	730
55D	E	332	533	30L	732
55F	M	332	530	32L	732
62D	F	330	532	30L	732
62G	K1, R, Rx	334	532	32L	734
65G	J, O	334	532	32L	734
74E	L	330	533	30L	734
74H	K1	330	530	30L	730
75E	N	330	532	30L	734
75G	R, V	332	530	32L	734
A84	N	332	532	32L	734

Quick Reference Guide for Mould and Shade Popularity  
Shades and Moulds are listed in Order of Preference based on Product Sales

Portrait IPN Anterior MOULD Preference

Uppers

Small Moulds: 21D, 42D, 55D  
Medium Moulds: 12E, 22E, 42F, 32E, 13E, 43F  
Large Moulds: 11H, 45H, 12G, 21X, 21J, 62G

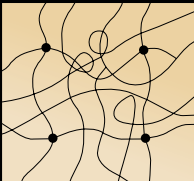
Lower

Small Moulds: F, C, E  
Medium Moulds: N, H, P, M  
Large Moulds: S, R, K1, O

Portrait IPN Posterior MOULD Preference

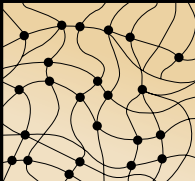
Portrait IPN Anatoline: 332, 334      Portrait  
IPN 22° BioStabil: 532  
Portrait IPN 33°: 32L, 34L, 30L,      Portrait  
IPN 40° EuroLine: 732

Conventional  
Acrylic Material



Single Cross-  
Linked  
Polymer

IPN Material



Double  
Cross-Linked  
Polymer



Two Decades of IPN® Material Performance

















Unrivalled performance since 1981...  
Unmatched tooth variety and selection...  
Unequivocal evidence of superiority from rigorous scientific evaluations...  
And the unparalleled protection of one of the industry's broadest tooth warranties.

Those are just a few of the reasons why countless dental professionals trust Trubyte IPN teeth to satisfy their patients. IPN teeth also offer an exceptional warranty against excessive wear, abrasion, stain, cracking, crazing and loss of lustre.

This guarantee ensures optimum function and overall aesthetics. And unlike other hardened plastic teeth, IPN teeth are able to mimic the gradual wear of tooth enamel, while delivering outstanding occlusal integrity and long-lasting aesthetics. The low wear feature is due to a proprietary chemistry that employs an Interpenetrating Polymer Network (IPN). This is formed when a highly engineered cross-linked polymer is combined with a special cross-linked monomer to form a highly wear-resistant double cross link.

IPN teeth are available in Portrait™ IPN®.

Mould No.		Square				Mould No.		Square Tapering			
			Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)				Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)
11G			11.10	8.75	52.00 48.00	21C			10.00	7.70	45.50 42.00
11H			11.60	9.35	54.50 50.50	21D			10.50	8.05	47.00 44.00
12E			10.60	8.50	50.00 45.50	21E			12.00	9.00	51.00 46.00
12F			10.25	8.50	50.50 47.00	21G			12.00	9.75	56.00 52.00
12G			10.60	9.15	53.00 49.00	21J			12.40	10.20	58.00 54.50
13E			9.30	8.10	47.50 44.00	21X			10.90	8.75	50.00 46.50
						22C			9.85	7.70	44.50 41.00
						22E			10.75	8.50	49.00 45.00

Mould No.	Square Tapering				Mould No.	Tapering			
		Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)			Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)
22G		9.60	8.60	51.00 47.00	41J		13.25	10.00	58.00 53.50
22H		12.10	9.25	54.00 50.00	42D		10.25	8.00	48.00 43.50
24F		12.00	8.45	48.00 44.50	42F		10.50	8.45	50.00 46.50
25G		10.10	8.70	51.50 47.50	42G		10.40	8.70	52.00 48.00
	Square Ovoid				43D		8.70	7.85	45.50 41.50
31F		11.50	8.60	49.50 46.00	43F		9.60	8.80	49.00 45.50
32B		9.20	7.50	44.00 40.50	45F		10.75	9.00	51.50 46.50
32E		10.00	8.20	49.00 45.00	45H		11.25	8.85	54.00 49.50
32G		11.20	8.95	52.50 49.00					





Mould No.	Tapering Ovoid	Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)
52C		9.00	7.40	44.00 40.00
54F		11.50	8.65	49.00 45.00
55D		10.25	8.25	47.50 43.50
55F		10.85	8.50	50.50 46.50

Mould No.	Ovoid	Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)
62D		10.10	8.10	47.00 43.00
62G		11.90	9.20	52.50 48.50
65G		11.50	9.00	52.00 47.50
Square Tapering Ovoid				
74E		11.00	8.30	49.00 44.50
74H		12.25	9.00	54.00 50.00
75E		11.00	8.35	49.50 45.50
75G		11.20	9.10	53.50 49.00
A84		11.60	8.45	48.50 44.50



Mould No.	Lower Anteriors	Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)
C		9.00	4.90	35.00 31.50
D		8.25	4.55	33.50 30.50
E		9.40	4.95	38.00 33.50
F		8.85	4.95	36.50 32.00
G		9.65	5.10	38.00 34.00
H		9.10	4.90	36.50 32.00
I		12.25	5.75	43.00 36.00
J		10.25	5.50	40.50 35.50
K1		11.85	5.90	43.50 38.50
L		9.00	5.15	37.00 33.00

Mould No.	Lower Anteriors	Length of Central w/o Collar (mm)	Width of Central (mm)	Width of 6 Anteriors on Curve/Flat (mm)
M		8.80	5.05	39.50 35.00
N		9.10	5.20	38.00 33.50
O		9.80	5.40	40.00 35.50
P		8.75	5.40	39.50 35.50
R		9.25	5.20	40.50 36.00
S		9.65	5.70	40.00 38.50
U		10.50	5.75	42.00 38.50
V		9.00	5.60	41.50 37.00
W		10.25	5.75	42.00 39.00
RX		12.75	5.75	42.00 37.00



### 10° Posteriors

The look of well-worn natural teeth. Shallow cusps minimize interference, yet provide a definite centric. In occlusion, the upper lingual cusps align to form an exceptionally efficient "lingual cutting knife."

330



X = 30.00  
Y = 32.00  
U = 7.70  
L = 8.25

332



X = 32.00  
Y = 34.50  
U = 8.50  
L = 9.25

334



X = 34.00  
Y = 36.50  
U = 9.10  
L = 9.40

### 22° Posteriors

Aesthetically and functionally suited for complete and partial dentures. Shallow non-interfering cusps facilitate freedom in all excursions.

530



X = 30.00  
Y = 31.50  
U = 7.90  
L = 8.25

532



X = 32.00  
Y = 33.50  
U = 8.65  
L = 9.00

533



X = 33.00  
Y = 34.50  
U = 10.00  
L = 9.70

### 33° Posteriors

Fully anatomical with natural cuspal contours. Ideal for complete and partial dentures which occlude with well-developed natural teeth.

30L



X = 30.00  
Y = 32.50  
U = 7.90  
L = 8.25

32L



X = 32.00  
Y = 35.00  
U = 8.50  
L = 8.75

34L



X = 34.00  
Y = 36.75  
U = 8.90  
L = 9.30

### 40° Posteriors Euroline

EuroLine IPN 40° posteriors are German designed with a natural-looking "young" occlusal pattern, wide food table and long crown form. Using 30° incisal and condylar guidance settings, they can be arranged for maximum efficiency, aesthetics and integration in full, partial or combination cases.

730



X = 29.00  
Y = 30.70  
U = 9.90  
L = 8.30

732

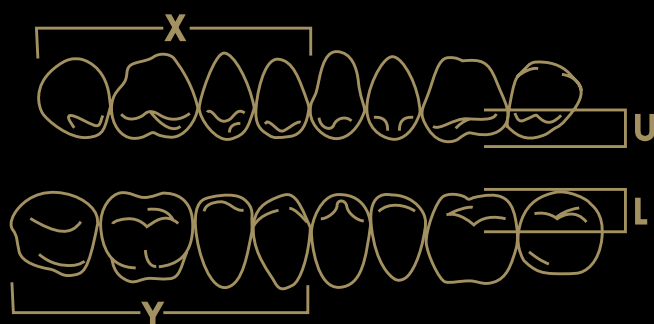


X = 32.00  
Y = 33.60  
U = 11.00  
L = 9.20

734

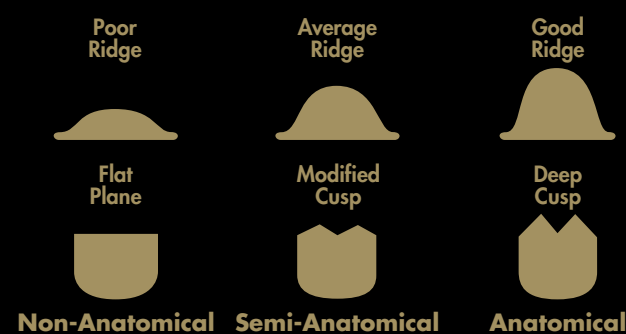


X = 33.50  
Y = 35.50  
U = 11.50  
L = 9.60



The average width of a 1x4 set of upper posteriors = X; the lower posteriors = Y.

The average depth of the upper left first molar = U; the lower left first molar = L.





# Cosmo HXL

Natural and functional.

### Natural and Functional

To realize our goal of re-creating natural and functional teeth in a reduced and economical assortment, Dentsply amalgamated all resources from research, materials, up-to-date production methods, whilst maintaining the rigorous quality control it is renown for.

### The Natural Choice

The success of this tooth-line is based on a perfect combination of:

- Comprehensive mould variety
- Natural Aesthetics
- Easy shade selection with popular V-shades
- Patient comfort due to physiologically reduced cusps
- Easy handling, perfect interdigitation
- Excellent material properties

### Superior HXL Material





Cosmo teeth are made of HXL (= highly cross-linked) high quality PMMA resin. This ensures outstanding wear rates.

### Easy Handling










The logical mould coding (tapering, round, square) makes the shape selection easier and more convenient. Moreover Cosmo HXL posteriors are easy to set-up due to their reduced cusp angle of 20°.

All Cosmo HXL teeth are available in the most popular V-shades. This shade selection is simplified, too. The comprehensive mould variety helps to minimize the tooth stock without losing the flexibility to fulfil every prosthetic case.



Mould No.		Tapering	Width of the complete set in mm	Length of the centrals without neck in mm	Width of the centrals in mm
T2			40.2	8.9	7.3
T4			40.6	9.5	7.7
T6			42.2	9.6	8.2
T8			43.4	10.0	8.1
T10			42.8	10.0	7.8
T12			44.7	10.7	8.6
T14			45.8	10.2	8.4
T16			45.4	10.7	8.7

Available in V-shades  
(A1–D4, without C1 and B1)

Mould No.		Tapering	Width of the complete set in mm	Length of the centrals without neck in mm	Width of the centrals in mm
T18			47.6	10.9	9.0
T20			51.2	11.3	9.6
T22			53.8	12.2	10.0
		Round			
R2			40.6	9.0	7.6
R4			42.6	9.7	7.9
R6			44.5	9.6	8.2
R8			45.7	10.7	8.4

# Cosmo HXL

Upper Anteriors



Mould No.		Square	Width of the complete set in mm	Length of the centrals without neck in mm	Width of the centrals in mm
S2			40.8	8.6	7.7
S4			43.7	9.2	8.2
S6			43.3	9.8	8.3
S8			45.3	9.4	8.8
S10			45.2	10.1	8.2
S12			46.6	10.4	8.7
S18			50.2	11.5	9.5



Cosmo *HXL*

Lower Anteriors



Mould No.	Lower Anteriors	Width of the complete set in mm	Length of the centrals without neck in mm	Width of the centrals in mm
L1		29.8	8.2	4.3
L3		30.6	8.6	4.6
L5		31.5	8.7	4.6
L7		33.1	10.0	4.9
L9		35.9	10.0	5.7
L11		38.1	10.1	5.7
L13		39.5	11.0	5.7

Available in V-shades  
(A1–D4, without C1 and B1)

Combination table

Cosmo HXL Upper Anteriors	Cosmo HXL Lower Anteriors	Cosmo HXL Posteriors
T2	L1/L3	91
T4	L1/L3	91/92
T6	L3/L5	91/93
T8	L5/L7	92/93
T10	L5/L7	92/93
T12	L5/L7	92/93
T14	L7/L9	92/93
T16	L7/L9	93/94
T18	L7/L9	93/94
T20	L9/L11/L13	94/95
T22	L13	95
R2	L1	91
R4	L5	92/93
R6	L5/L7	92/93
R8	L7	92
S2	L1/L3	91
S4	L3/L5	91/93
S6	L3/L5	93
S8	L7	93
S10	L7	93
S12	L7	93
S18	L11/L13	95



Cosmo *HXL*

Posteriors



Mould No.	Lower Anteriors	Half the width of the set in (mm)	Width of the first molar in (mm)
91		28.9	8.4
92		30.9	7.6
93		28.7	8.5
94		30.7	7.9
95		29.9	8.4
		32.7	7.2
		30.5	8.8
		33.3	7.4
		33.0	9.5
		35.3	8.7

Available in V-shades  
(A1–D4, without C1 and B1)





**Success®**  
Injection System

**Lucitone® FRS™**  
Flexible Dental Resin

**Lucitone 199®**  
Denture Base Resin

Your **skill**

Our **technology**

**We...**



**Combine...**

Lucitone® 199  
Flexible Dentures FRS  
Al-Cote®  
LabStone

Pinnacle Modelling wax  
Stellon QC 20  
Rapid Repair  
Special Tray

PermaSoft®  
Viscogel  
Triad®