

## Grouping of Composite Systems According Type and Shading

Esthetic Composite Systems			VITA shade Designation			
Product	Manufacturer	Filler Type	VITA Enamel	non-VITA Enamel	VITA Dentin	non-VITA Dentin
<b>Aelite AP Body</b>	Bisco	Microhybrid	√	√		
<b>Amaris</b>	Voco	Nanohybrid		√		√
<b>Amelogen Plus</b>	Ultradent	Nanohybrid		√	√	
<b>Artiste</b>	Pentron	Nanohybrid		√		√
<b>Charisma</b>	Hereaus Kulzer	Hybrid	√	√	√	
<b>Clearfil AP-X</b>	Kuraray	Microhybrid	√	√		
<b>Durafill VS</b>	Hereaus Kulzer	Microfill	√			
<b>Enamel Plus HFO</b>	Micerium	Microhybrid		√		√
<b>Enamel Plus HRI</b>	Micerium	Nanohybrid		√		√
<b>Empress Direct</b>	Ivoclar Vivadent	Nanohybrid	√	√	√	
<b>Estelite Sigma</b>	Tokuyama	Nanohybrid	√	√	√	
<b>Estelite Sigma Quick</b>	Tokuyama	Nanohybrid	√	√	√	
<b>Estelite Sigma Pro</b>	Tokuyama	Nanohybrid	√	√	√	
<b>Esthet-X Improved</b>	Dentsply	Microhybrid	√	√	√	
<b>Esthet-X HD</b>	Dentsply	Nanohybrid	√	√	√	
<b>Filtek Z250</b>	3M ESPE	Hybrid	√	√		√
<b>Filtek 3250</b>	3M ESPE	Nanohybrid	√	√	√	
<b>Filtek Supreme Plus</b>	3M ESPE	Nanohybrid	√	√	√	
<b>Filtek Supreme Ultra</b>	3M Espe	Nanoparticle	√	√	√	
<b>4 Seasons</b>	Ivoclar Vivadent	Hybrid	√	√	√	
<b>Gradia Direct</b>	GC	Microhybrid	√	√	√	
<b>Gradia Direct X</b>	GC	Nanohybrid	√	√	√	
<b>Grandio</b>	Voco	Nanohybrid	√	√	√	
<b>Herculite XRV</b>	Kerr	Hybrid	√	√	√	
<b>Herculite Ultra</b>	Kerr	Nanohybrid	√	√	√	
<b>Kalore</b>	GC	Nanohybrid	√	√	√	
<b>Majesty</b>	Kuraray	Nanohybrid	√	√	√	
<b>Matrixx AH</b>	Discus Dental	Hybrid	√			
<b>Matrixx AM</b>	Discus Dental	Microfill	√	√		
<b>Miris 2</b>	Coltene Whaledent	Nanohybrid		√		√
<b>Point 4</b>	Kerr	Microhybrid	√	√	√	
<b>Renamel Hybrid</b>	Cosmedent	Hybrid		√	√	
<b>Renamel Nano</b>	Cosmedent	Nanohybrid	√	√		
<b>Renamel Microfill</b>	Cosmedent	Microfill	√	√		
<b>Reflexions XP</b>	Bisco	Nanohybrid		√		√
<b>Simile</b>	Pentron	Microhybrid		√	√	
<b>Synergy D6</b>	Pentron	Nanohybrid	√		√	
<b>Tetric Ceram</b>	Ivoclar Vivadent	Hybrid	√	√	√	
<b>Tetric EvoCeram</b>	Ivoclar Vivadent	Nanohybrid	√	√	√	
<b>Vitalescence</b>	Ultradent	Hybrid		√	√	
<b>Venus</b>	Hereaus Kulzer	Nanohybrid	√	√	√	
<b>Venus Diamond</b>	Hereaus Kulzer	Nanohybrid	√	√		√

## Suggested Ultra-Basic Kit According to Optimal Properties

Handling (H)  
Strength (S)  
Polishability (P)  
Blending Effect (BE)  
Fluorescence (F)  
Opalescence (O)

- **ARTIFICIAL DENTIN**

Hybrid (Hybrid, Microhybrid, and Nanohybrid) – Shade range suggested: B1, A1, A2, A3, A4, A5, A6

- a. Estelite Sigma – OA1, OA2, OA3 - (H, S, BE, P, F)
- b. Empress Direct – B1D, A1D, A2D, A3D, A4D, A5D - (H, S, BE)
- c. Supreme Ultra - A1D, A2D, A3D, A4D - (H, S, BE)

- **BODY ENAMEL (Chromatic)**

### Microfill

- a. Durafill VS – B1, A1, A2, A3 (lower opacity) - (H, BE, P, F)
  - ✓ Diastema closure
  - ✓ Veneers (teeth w/out need for change in value)
- b. Renamel Microfill - B1, A1, A2, A3, SB1, SB2, SB3 (higher opacity) - (H, P, F)
  - ✓ Veneers (teeth with need for change in value)
  - ✓ Class V's

### Hybrid

- a. Estelite Sigma – B1, A1, A2, A3 - (H, S, BE, P, F)
- b. Empress Direct - (H, S, BE, F)
- c. Supreme Body Enamel - (H, S, BE)
- d. Gradia Direct - (H, S, BE, F)
- e. Esthet-X HD - (H, S, BE, F)
- f. Venus Diamond - (H, S, BE, F)

- **EFFECT MILKY-WHITE SEMI-TRANSLUCENT ENAMEL** - (lingual shelf, halo)

- a. Supreme Ultra – WE - (H, S, BE, P)
- b. Estelite Sigma – WE - (H, S, BE, P, F)

- **EFFECT TRANSLUCENT ENAMEL** - (inner translucency)

- a. Supreme Ultra – GT - (H, S, BE, P, O) – (grayish)
- b. Vitalescence - Iridescent Blue – (S, BE, F, O) – (light blue)
- c. HFO Enamel Plus – OBN – (S, BE, F) – (dark blue)
- d. Empress Direct – Trans Opal – (H,S,BE,P,F,O)

- **EFFECT VALUE ENAMEL**

**Microfill**

- a. Renamel Microfill – Incisal Light (IL) and Incisal Medium (IM) - (H, BE, P, F)

**Hybrid**

- a. Enamel Plus HRI – UE1, UE2, UE3 (H, BE, P, F, O)
- b. Vitalescence – PS, PF, PA, TS, TF – (S, BE, F)
- c. Supreme Ultra – CT – (H, BE, P, O)

- **TINTS** - Kolor + Plus Tints – complete kit

- **OPAQUER** - Creative Color Opaquer – [A1- B1- LO], [A2- A2,5], [Pink]

\* These are only examples of shades that can be used as representatives of each category. Other products of similar properties might also be used to substitute the materials specified herein.

## Material's List

### 1. Cavity Disinfectants

- 3% H<sub>2</sub>O<sub>2</sub> (Generic)
- 2% Chlorhexidine (Generic)
- Consepsis (Ultradent)

### 2. Sandblaster

- Microetcher II (Danville Engineering)

### 3. Acid Etchants (Enamel and Dentin)

- Ultra-Etch 35% (Ultradent)
- Gel Etchant 37,5% (SDS/Kerr)
- Enamel-Etch 37,5% (Cosmedent)
- Etch 37% (Bisco)

### 4. Hemostatic

- Astringident (Ultradent)
- Hemodent (Premier)
- Viscostat Clear (Ultradent)

### 5. Adhesive Systems

- Scotch Bond MP Plus (3M/ESPE)
- Optibond FL (SDS/Kerr)
- All Bond 3 (Bisco)
- One Step Plus (Bisco)
- Clearfill SE Bond (Kuraray)
- BondForce (Tokuyama dental)

### 6. Desensitizer

- Super Seal (Phoenix) – Potassium Oxalate
- BisBlock (Bisco) – Potassium Oxalate
- Gluma Desensitizer (Heraeus Kulzer)
- 5% Glutaraldehyde aqueous solution (Generic)

### 7. Low Viscosity Composites (Flowable)

- Tetric Flow (Ivoclar/Vivadent)
- Tetric EvoFlow (Ivoclar/Vivadent)
- Estelite Flow Quick (Tokuyama)
- Renamel Flowable Microfill (Cosmedent)
- Filtek Supreme Plus Flow (3M/ESPE)
- Esthet-X Flow (Dentsply)

## 8. Surface Sealants

- Bis Cover LV (Bisco)
- Bis Cover (Bisco)

## 9. Tints

- Kolor + Plus (SDS/Kerr)
- Creative Color Tints (Cosmedent)

## 10. Opaquers

- Creative Color Opaquers (Cosmedent)

## 11. Retraction Cord

- Ultrapack 000, 00, 0, (Ultradent)

## 12. Finishing and Polishing

### Diamond Strips

- Visionflex Diamond Strips (Brasseler)
- Flexidiamond Strips (Cosmedent)
- Compo Strips (Premier)
- NTI Serrated Diamond Finishing Strips (Axis)

### Plastic Strips

- Epitex (GC)

### Serrated Metal Strips

- Cerisaw (Dent-Mat)
- NTI Serrated Diamond Finishing Strips (Axis)

### Discs (Finishing)

- Sof-Lex Pop-on XT (3M/ESPE)
- Flexi-Disc (Cosmedent)
- Finishing Discs (Bisco)
- OptiDisc (KerrHawe)

### Discs (Polishing)

- Flexi-Buff (Cosmedent)
- Shammy (Axis)
- Chamois Mounted Polishing Buff

## **Rubber Rotaries**

- Flexipoints, Flexicups e Flexiwheels (Cosmedent)
- Jiffy System (Ultradent)
- D´Fine Diamond Polishing, Points for Hybrids (Clinician´s Choice)
- PoGo (Caulk/Dentsply)
- Astropol (Ivoclar Vivadent)

## **Polishing Brushes**

- Silicon Carbide (Premier)
- Jiffy Brush (Ultradent)
- Occlubrush (SDS/Kerr)

## **Pastes**

- Enamelize (Cosmedent)
- Prisma Gloss (Caulk/Denstply)

## **13. Hydro-soluble Gel (Oxygen Barrier)**

- Oxigone (Cosmedent)
- Oxalate (Generic)
- Glycerin (Generic)
- KY Jelly (Generic)

## **14. Contouring Instruments**

- Microfill Instruments – Gold (Almore)
- IPC – Long & Short (Cosmedent)
- SP – SMTN (Cosmedent)
- Holleback # 6 (SS White)
- Goldstein Flexi Thin Composites Instruments – Kit (Hu-Friedy)

## **15. Artist Brushes (Flat, Fine, and Extra-Fine Tipped) #0,1,3**

- Artist Brushes
- Cosmedent

## **16. Aesthetic Posts**

- DT Light-Post (Bisco)
- FRC Postec (Ivoclar/Vivadent)
- FibreKor-Post (Jeneric Pentron)
- C-Post (Bisco)
- Unicore (Ultradent)

## **17. Curing Unit**

- Optilux 501 (SDS/Kerr)
- VIP (Bisco)
- XL 3000 – (3M/ESPE)
- LED Demetron A.1/A.2 (SDS/Kerr)
  
- LED Ultralume 5 (Ultradent)

- Blue Phase 16i (Ivoclar/Vivadent)

## 18. Recommended Reading

- Reality (+1 – 281 –493 – 1558)
- PP & D (Practical Periodontics Aesthetic Dentistry)
- Journal of Esthetic and Restorative Dentistry
- The European Journal of Esthetic Dentistry
- Porcelain Bonded Restorations – by Pascal Magne – Quintessence Publishing Co.

## 19. Composite Preparation and Finishing Diamonds (1-888-654-2947)

- **Axis** Anterior Preparation Set by Newton Fahl, DDS, MS
- **Axis** Posterior Preparation Set by Newton Fahl, DDS, MS
- **Axis** Composite Finishing Set by Newton Fahl, DDS, MS