

LAB APPLIANCE FABRICATION REQUIREMENTS

SLEEP APNEA APPLIANCES

General Guidelines

Prescriptions:

Please provide complete and signed Rx with every case.

Impressions:

- Accurate impressions with any kind of impression material are acceptable.
- Impressions must adequately reflect **all relevant** anatomy.
- Impression material **must not** be separating from the impression tray.
- Consider pouring your models right away if your impressions are moisture, temperature or time sensitive.
- Impressions sensitive to moisture content should be wrapped in a damp paper towel and placed in a sealed plastic bag if models are not poured immediately.
- Only metal impression trays and those with PVS impression material will be returned.

Models:

- Plaster or stone models are acceptable. Generally, the durability of the stone is preferred.
- Models should be reasonably trimmed, yet sufficiently thick for strength considerations.
- No horse shoe shaped models; all models should have bases of at least 7mm in the thinnest area.
- Bases will be added as necessary, for an additional fee, to the models without bases or lacking adequate base thickness or strength.
- Please indicate if your model must be duplicated, as work models may get damaged during appliance fabrication process.

Bite Records:

- Please package bite registrations carefully.
- Bite records **must not** be left between models for shipment to the lab.
- Dedicated packaging should be considered for brittle materials such as Delar wax.
- Please identify the nature and the intent of each bite record, if more than one is being supplied.
- Please consider mounting the maxillary model, before sending it to the lab, for those cases requiring mounting. Sending such items as face bows, bite forks and mounting jigs through the mail often results in unreliable mountings.

Articulators:

We use following articulators and their accessories in our laboratory:

- SAM 1, SAM 2, SAM 3
- Danar
- Panadent
- Whip-Mix
- Hanau
- Stratos 200
- Artex
- Kavo

**Please consider that fully mounted models may not transfer perfectly from your articulator to the one in the lab.

Materials and Components:

- (*)Biocryl resin - Cold Cure Acrylic - MMA (Methyl methacrylate)
- Clear Biocryl – Thermo formable PETG (Polyethylene terephthalate glycol)
- Colored/patterned Biocryl – Thermo formable PVC (Polyvinyl chloride)
- Splint Biocryl – Thermo formable PETG.
- Triad ® (Visible Light Cure)
- Mouthguard material – Thermo formable EVA (Ethylene vinyl acetate)
- (*)Duraloy – Cobalt/Chromium alloy
- (*)Stainless steel – Chromium/Nickel alloy
- (*)NiTi - Nickel Titanium alloy
- TMA – Titanium/Molybdenum alloy
- Menzanium – Nickel-free stainless alloy
- (*)Silver solder

(*) material is potentially allergy causing in sensitive patients

Sleep Apnea: Klearway

Technical requirements:

- Upper and lower models required.
- Construction bite registration is required.
- Stone models are preferred.

Default materials:

- Veriflex
- Stainless steel

Practical considerations:

- Construction bite should reflect the exact desired mandibular position with the following parameters in mind:
- Mandibular advancement – 50% - 65% of the full protrusive position.
 - Completed appliance has considerable titration capability.
- Vertical Opening – At least 5mm inter-incisal clearance.
 - May be slightly increased or decreased by the lab upon request.
- Dental Midlines Relationship - Should there be a misalignment of upper and lower dental midlines in a desired construction bite, please diagram so on the Rx.

Sleep Apnea: Napa

Technical requirements:

- Upper and lower models required.
- Construction bite registration is required.
- Stone models are preferred.

Default materials:

- Cold cure acrylic – Methyl methacrylate
- Stainless steel

Practical considerations:

- Construction bite should reflect the exact desired mandibular position with the following parameters in mind:
- Mandibular advancement – 50% - 75% of the full protrusive position.
 - Absolutely cannot be altered by the lab.
 - Appliance has no titration capability.
- Vertical Opening – At least 5mm inter-incisal clearance.
 - Absolutely cannot be altered by the lab.
- Dental Midlines Relationship – Should there be a misalignment of upper and lower dental midlines in a desired construction bite, please diagram so on the Rx.

Sleep Apnea: Elasto**Technical requirements:**

- Upper and lower models required.
- Bite registration is required.
- Stone models are preferred.

Default materials:

- Medical grade silicone

Practical considerations:

- Bite record should reflect the exact desired mandibular position with the following parameters in mind:
- Mandibular advancement – 50% - 75% of the full protrusive position.
 - Absolutely cannot be altered by the lab.
 - Appliance has no titration capability.
- Vertical Opening – At least 5mm inter-incisal clearance.
 - Absolutely cannot be altered by the lab.
- Dental Midlines Relationship – Should there be a misalignment of upper and lower dental midlines in a desired construction bite, please diagram so on the Rx.