

ALGINAT - INSTRUCTIONS FOR USE

Indication

Alginat is dustfree and available in Fast Set as well as Normal Set (Superior Pink). It is suitable both for general dental practice and for orthodontics. It has a more firm consistency and gives impressions with a smooth surface and good elastic properties.

Storing Alginat

- Always store Alginat in a cool, dry place.
- After opening the packaging store Alginat in a firmly closed storage box. Always close the box immediately after using the material.

Dosing

- Stir the powder to loosen it well.
- Scoop it from the storage box with a light, swift movement and then stroke the powder smooth: do not compress the powder in the scoop.
- Mix water (at room temperature) and powder in the mixing cup.
 - * for a partial impression 1 scoop + 1/3 beaker of water
 - * for a full impression 2 scoops + 2/3 beaker of water
 - * for an extra-large impression 3 scoops + full beaker of water
 - * for stiff Alginate (1) 3 scoops + water (high viscosity level)

Ideal mixing ratio: 21.2 g = 3 measuring scoops: 46 ml = 1 full beaker.

You can make the mixture thinner or thicker by adding more or less water respectively.

(1)Stiff alginate technique

The impression technique to make an accurate first (functional) impression for a stable denture. It is the combination of an impression tray with rimlock for edentulous jaws e.g. Schreinemakers' full denture tray system" and stiff (high viscosity) Alginate. Stiff Alginate is the normal amount of powder with 30% less water. The high viscosity Alginate pushes the soft tissue aside. As a result the anatomical details, even the frenae are clearly visible. The gypsum model can be lined-out accurately and fully, which enables the dental technician to ensure that the individual tray is a perfect fit. The result: a stable denture and satisfied patient.

Mixing

- Mix both components together carefully and thoroughly for 30 seconds until a smooth and homogeneous mixture is obtained.
- Fill the tray immediately and use a wetted finger to stroke it smooth.

Taking the impression

- Within 1½ minute (Normal Set) /1 minute (Fast Set) after mixing.
- Allow the impression material to set for 1½ minute (Normal Set) / 1 minute (Fast Set).
- Remove the tray in a single rapid movement.
- Rinse the tray under cold running water.
- Remove any excess water, but leave the surface moist. Never blow-dry!

Making the plaster models

- Immediately after rinsing, pour out the plaster impression and make a second plaster model if desired.
- If immediate pouring is impossible: store the impression in a firmly sealed plastic bag to achieve a relative humidity of 100%. This is essential for optimum results at a later pouring.
- Make the plaster model within 48 hours after taking the impression.

Product specifications

Alginat (Normal Set / Fast Set) meets the ISO 21563 and ADA 18 standards.

	ISO 21563*	Alginat		
		Normal Set	Fast Set	
Powder / water ratio	-	21.2 / 46	21.2 / 46	g / ml
Mixing time	< 60	30	30	sec.
Total working time according to manufacturer's indication		2	1.30	min.
Total setting time according to manufacturer's indication		3.30	2.30	min.
Compression strength	> 0.35	1.10	1.20	MPa
Recovery after distortion	> 95	97.1	96.8	%
Elastic distortion	5-20	15.8	15.8	%
Detail reproduction	50	50	50	µm

* measured with deionised water at 23°C

Mixing scheme Alginat

	mixing	filling + placing	Setting in mouth
Normal Set	30 sec.	1 minute 30 sec.	1 minute 30 sec.
Fast Set	30 sec.	1 minute	1 minute

	total working time
Normal Set	2 minutes
Fast Set	1 minute 30 seconds

	setting time
Normal Set	3 minutes 30 sec.
Fast Set	2 minutes 30 sec.

Note.

1. The working/setting times increase with a lower (water) temperature. At higher temperatures the times become shorter.
2. The water hardness has the same effect: the harder the water used for mixing, the shorter the working/setting time.

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