

# TECHNICAL DATA SHEET

- Product:** Alginate Impression Material
- Product Description:** Alpha-Dent® Alginate Impression Material is available in a variety of flavors and set types. This heavy body material is designed to produce consistent impressions. Each can includes powder scoop and vial.
- Indications for Use:** Alpha-Dent® Alginate Impression Materials are indicated for making dental impressions for fabrication of casts, for orthodontic models, opposing models and case study models.
- Appearance:** Fluffy, off-white powder.
- Curing Mechanism:** The material sets when mixed with tap or distilled water.
- Shelf-Life:** 24 months
- Filler Type:** Not applicable.

**Main Composition (%w/w):**

Sodium Alginate	5 – 15 %
Diatomaceous Earth	55 – 70 %
Retardant	0.5 – 3.5 %
Accelerator	5 – 15 %
Pigment	2.0 – 5.0 %
Filler	2.0 – 7.0 %
Potassium Titanium Fluoride	0.5 – 1.5 %
Flavor	< 2 %

**Physical /Mechanical Properties: (Typical Values)**

	<b>Fast Set</b>	<b>Normal Set</b>
Initial setting time (sec.)	90	155
Total working time (mm)	0.04	0.04
Recovery from deformation %	98	98
Strain in compression %	14.5	14.0
Compressive Strength Mpa	0.80	0.85
Compatibility to gypsum	Passes test	Passes test
Reproduction of details	Passes test	Passes test
Deterioration Mpa	0.6	0.5