



## Alginate Impression Material

## Chromatic

Alginate impression material, also known as irreversible hydrocolloid, is a widely used product in dentistry. It enables dentists to take accurate dental impressions for a variety of applications, including the fabrication of casts, orthodontic models, and dental prosthetics. Alginate impression material is available in a variety of flavors and setting types to suit different clinical needs.

### Intended Use

Alginate Impression Materials are indicated for making dental impressions used in the fabrication of:

- Diagnostic casts and study models
- Orthodontic models
- Opposing models
- Dental bridges and veneers
- Additionally, they are suitable for 3D mold casting of body parts, such as hands and feet.

### Item

### Specifications

·Product Name	Alginate Impression Material
·Type	Universal Type / High Precision Type / Super High Precision Type
·Appearance:	Fluffy, Multi-Color Powder (Green, Yellow, Blue, Pink, Purple, White, Orange)
·Water Temperature:	23°C / 73°F
·Curing Mechanism:	The material sets when mixed with tap or distilled water.
·Mixing Ratio	Dental Use: 100 g powder : 200 mL water (1:2) Life Casting: 100 g powder : 300–400 mL water (1:3–1:4)
·Feature	- Chromatic: Yes (default) / No (optional) - Dust-Free Formula - Easy Mixing & Homogeneous Consistency
·Shelf Life	3 years (unopened, stored under recommended conditions)
·Storage	Keep container tightly closed. Store in a cool, dry place (below 25°C). Avoid direct sunlight.





## Type

Item No	Item	Description	Packing
E50001	Universal	General porcelain and jaw impression	500g or customized 24bags/ctn Weight:13/12kgs 43*33*22cm
E50002	High Precision	Porcelain tooth impression	
E50003	Super High Precision	High precision local injection impression	

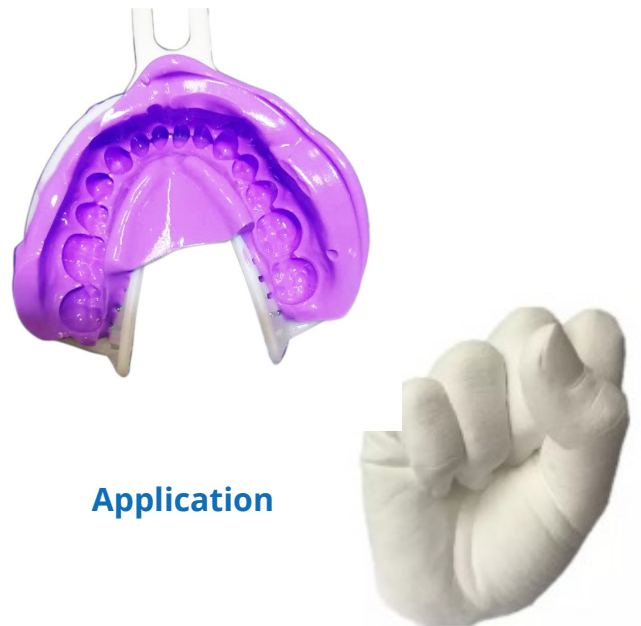
## Physical /Mechanical Properties: (Typical Values)

Property	Universal Type	High Precision Type	Super High Precision Type
Mixing Time	30"	30"	30"
Total Working Time	≥1'30"	≥1'30"	≥1'30"
Time in Mouth	1'00"	1'00"	1'00"
Total setting time	3'00"	3'00"	3'00"
Powder - to - Water Ratio	10g/22 mL	10g/22 mL	10g/22 mL
Detail Reproduction (Pre/Post - Disinfection)	20 μm	20 μm	20 μm
Reappearance (Detail Stability)	50 μm	48 μm	45 μm
Elastic recovery	97 %	97 %	98 %
Permanent Deformation	16 %	15 %	12 %
Compressive Strength	>0.5 MPa	>0.55 MPa	>0.6 MPa
Tear Strength	>0.38 N/mm	>0.4 N/mm	>0.48 N/mm
Compatibility with Gypsum	Passes test	Passes test	Passes test

## Main Composition (%w/w)

Chemical name	CASNo.
Diatomite	61790-53-2
Calcium sulfate	7778-18-9
Sodium alginate	9005-38-3
Zinc oxide	1314-13-2
Disodium hexafluorotitanate	17116-13-1
Trisodium orthophosphate	7601-54-9

*Note: CASNo.is Chemical Abstract Service Registry Number.*



Application





Color Change Instructions

Pink no change



White to Red



Purple no change



Light Green to Purple



Yellow to Red



Blue to Purple



Green to Purple



Orange no change



Packing



Standard bag  
500g

200g



Foil bag  
500g



Kraft paper  
25kgs



Packing Details

Packing: 500g/bag, 24 bags/ctn (custom options: 454g, 1000g, 20kg, 25kg, etc.)  
 Carton Size: 43\*33\*22cm  
 G.W./N.W.: 13/12kgs

