



# alien CLAY™ FOR PRECISION MODELING

**Alien Clay™** is a premium, meltable, non-drying modeling clay that offers the following advantages:

- **Consistent Quality**
- **Low Tack Feel**
- **Solvent Friendly**
- **Holds Ultra-Fine Detail**
- **Sculpting Tool Friendly**
- **Silicone Friendly**
- **Can Be Melted & Remelted**
- **Will Not Become Brittle**
- **Sulfur-Free**

## PRODUCT OVERVIEW

**Alien Clay™** is a precision sculpting medium used for a variety of sculpting and fabrication applications. It is one of the most versatile clays available (sculpt, brush, trowel or pour) allowing for quick build-up and sculpting perfect detail. Use for sculpting finely detailed miniatures or life-size projects, movie special effects to create monsters, props, spaceships and other models, medical models, cosplay and more. Clay is a non-toxic, vegan-friendly material that complies to ASTM D-4236.

## GENERAL PROCESSING RECOMMENDATIONS

### WORKING WITH THE CLAY

**Alien Clay™** is not self-supporting so an armature may need to be constructed for figurative work. Traditional wood, metal and silicone clay tools are recommended for working with the clay.

### SMOOTHING THE CLAY SURFACE

Clay scrapers and rake tools are often used to initially make the clay surface uniform. Solvents such as naphtha, clear mineral spirits and turpentine are aggressive solvents which can be used to quickly soften and dissolve the surface of **Alien Clay™**. Citrus based solvents such as D-limonene can also be used but may cause inhibition when molding the clay using silicone rubber. 99% Isopropyl alcohol can be used to smooth the clay surface if a less aggressive solvent effect is desired. **NOTE:** If isopropyl myristate is used on the surface of **Alien Clay™**, the surface will remain soft, and it will not return to the original hardness.

### MAKING A SLIP OR SLURRY

Solvents such as naphtha, clear mineral spirits and turpentine can also be used to dissolve the clay to a workable slip or slurry. This liquid solution can then be used to create texture effects, join clay together, and coat clay surfaces.

## TECHNICAL OVERVIEW

**Color:**



Cool Gray

**Skin Safety:**



<b>Durometer / Hardnesses:</b>	<b>Soft</b>	45A
	<b>Medium</b>	55A
	<b>Hard</b>	70A

\*Durometer will fall within a range

**Tack Level:** Low Tack

**Wax Content:** High

<b>Density:</b>	<b>Soft</b>	72lbs/cu.ft.
	<b>Medium</b>	72lbs/cu.ft.
	<b>Hard</b>	72lbs/cu.ft.

<b>Specific Gravity:</b>	<b>Soft</b>	1.15
	<b>Medium</b>	1.15
	<b>Hard</b>	1.15

<b>Softening Temp:</b>	<b>Soft</b>	115°F/46°C
	<b>Medium</b>	125°F/52°C
	<b>Hard</b>	125°F/52°C

<b>Trowelable Temp:</b>	<b>Soft</b>	135°F/57°C
	<b>Medium</b>	145°F/63°C
	<b>Hard</b>	155°F/68°C

<b>Brushable Temp:</b>	<b>Soft</b>	170°F/77°C
	<b>Medium</b>	180°F/82°C
	<b>Hard</b>	190°F/88°C

<b>Liquefy Temp:</b>	<b>Soft</b>	212°F/100°C
	<b>Medium</b>	212°F/100°C
	<b>Hard</b>	212°F/100°C

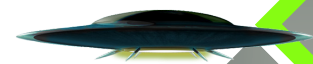
**Max Temp:** 220°F/104°C

**Packaging:**

- 10 x .475 lb.(.22 kg.) wedges = 4.75 lbs. (2.15 kg.) total in a specialty container
- Bulk: 8 x 4.75 lb. bars = 38 lbs.(17.23 kg.)



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## ALIEN CLAY™ CONTAINER - PREPARING FOR USE

The Alien Clay™ Container is specially designed for holding, softening and liquefying the clay. It is designed with handles and pour spouts to minimize the chance of burning skin while using heated clay.

**TO MELT OR SOFTEN CLAY IN CONTAINER, REMOVE DIVIDER PAPER, REPLACE LID (TO PREVENT WARPING) AND WARM CONTAINER IN A DEDICATED HEAT SOURCE; DO NOT EXCEED 220°F / 104°C**  
Use hand protection when handling hot container. Container contains two pour spouts to make pouring liquified clay easier.

### SOFTENING • BRUSHING • TROWELING • LIQUEFYING

#### Heating Equipment Options

- Temperature Controlled Crock Pots®
- Scientific/Laboratory Oven
- Hot Box With Conventional Temperature Monitor
- Warming Oven Dedicated For Clay Only (*Do Not Use Home Oven*)
- Microwaves Are **NOT** Recommended Due To Uneven Heating And Potential Burning.

#### SOFTENING THE CLAY

**Alien Clay™** is most often warmed to a temperature (**Soft** = 115°F/46°C; **Medium** = 125°F/52°C; **Hard** = 125°F/52°C) to soften it. When it returns to room temperature it also returns to the initial firmness.

#### TROWELING THE CLAY

**Alien Clay™** can also be heated to a state soft enough to be spread across a surface. (**Soft** = 135°F/57°C, **Medium** = 145°F/63°C; **Hard** = 155°F/68°C) As these temperatures are very hot and can cause burns, a metal trowel (or similar spreader) is needed to apply the hot clay safely. When troweling, a clay can be spread easily across a vertical armature surface with minimal to no slumping in a ¼ inch thickness (1.27 cm).

#### BRUSHING THE CLAY

**Alien Clay™** at (**Soft** = 170°F/77°C; **Medium** = 180°F/82°C; **Hard** = 190°F/88°C) is considered the brushing temperature of the clay. This temperature produces a lower viscosity (thinner) clay, suitable for initial coating on armatures or other surfaces that can be applied with a brush. A small scale test against surfaces to check for suitability is always recommend.

#### LIQUEFYING THE CLAY

**Alien Clay™** can be liquefied and poured (**Soft** = 212°F/100°C; **Medium** = 212°F/100°C; **Hard** = 212°F/100°C). This method is utilized to make exact reproductions (called castings) of a form by pouring the liquefied clay into a mold; that can be further shaped and revised. Clay might experience separation of the base materials during the heating process. Periodically mixing the liquid clay during the process and before pouring will ensure uniformity of the clay. It is recommended that the mold be heated to 150°F/66°C prior to pouring liquefied clay into mold for best surface detail.

#### CLEAN UP

**Alien Clay™** can be cleaned off of tools and surfaces with naphtha or 99% isopropyl alcohol.

## SAFETY FIRST

#### Keep Out Of Reach Of Children

Avoid overheating the clay, results in serious burns to the skin. The Safety Data Sheet (SDS) for this or any Chavant product should be read prior to use and is available upon request from Chavant. All Chavant products are safe to use if directions are read and followed carefully.

**Important:** The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.