



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 D4236.

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:



Durometer / Hardnesses:	Soft	45A
	Medium	55A
	Hard	70A

*Durometer will fall within a range

Tack Level: Low Tack

Wax Content: High

Density:	Soft	72lbs/cu.ft.
	Medium	72lbs/cu.ft.
	Hard	72lbs/cu.ft.

Specific Gravity:	Soft	1.15
	Medium	1.15
	Hard	1.15

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

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

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

Liquefy Temp:	Soft	212°F/100°C
	Medium	212°F/100°C
	Hard	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 to be a vessel 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.