



"Overman Charity Wax"
Wax formulas for fine sculpting and carving

My note to All:

These waxes are intended for use on small, fine, and very detailed work. I wanted a tougher, harder wax than most recipes yield and commercially available products currently provide. I wanted the ingredients to be "natural" materials and be easily obtainable ("Where to find the materials" info included later) After trying over 300 different wax formulas over the past 20+ years , I found that these fit my needs best of all. They are all pleasant to work with, contain no toxic chemicals (to my current understanding) and smell great!

My disclaimer to All:

Please note that these formulas were developed for my own use and by my own experimentation. I have not intentionally or knowingly violated any trade secret or patent. Please use good, common-sense when working with melted waxes. Use of a double boiler is highly recommended and avoid open flames at all costs to avoid a dangerous fire hazard. Hot wax on human skin is capable of creating severe and painful burns.

No warranty is expressed or implied.. I have given this info based on good faith and for good intentions only.

Copyright note:

This document may be copied and distributed for personal and non-commercial use.

I believe that God has created a rich and sharing universe and it is in that spirit that I send this forth. Please share this document in its entirety with anyone who might benefit from it personally. Please keep this info in this exact format with all the info intact. Do not extract any individual formula.

Please make all references to recipes given here as " Overman Charity Wax" followed by the "ID" number. For commercial use please submit offers/requests in writing to address given at end of document.

Request to all:

If you put any of these to use, please consider making at least a \$10 donation of any Charity of your choosing.

Also I'd love to see any of your works made from these formulas. Email on last page

		<===== "Firm" to "Hard" Modeling =====>			
			My favorite for general sculpting of small object including reliefs		If cast as large sheet, may crack as cooling occurs
		Firm	Very firm	Very very firm	Extremely firm
Order Of Melt	ID # =====>	"F"	"VF"	"V VF"	"EF"
3	Candelilla	38	40	42	52
4	Beeswax	28	27	26	26
2	Stearin	19	17	16	
1	Carnauba	6	8	10	3
6	Titanium Dioxide	9	8	6	6
5	Rosin				6.5
7	Cornstarch				6.5
Total=====>		100	100	100	100



Overman Gold Wax"

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		<===== Carve Only =====>		
				If cast as large sheet, may crack as cooling occurs
		Carve only-Soft	Carve only med	Carve only Hard
		My Favorite		
Order of Melt	ID # =====>	Bronze	Gold	Silver
5	Paraffin	16		
3	Candelilla	25	40	40
4	Beeswax	10	30	20
2	Stearin			
1	Carnauba	6	20	30
6	Titanium Dioxide		10	10
6	Talcum Powder	43		
	Total=====>	100	100	100

Notes on materials:

- 1) **Carnauba**- There are several grades. I used "Prime Yellow Flake" from Liberon/Star Supplies. Can be added to any of the formulas here to increase hardness, but can cause product to be brittle can crack during cooling.
- 2) **Candelilla**- In my humble opinion this is one of the most important bases for a stable wax. It is tough but not brittle. And the scent that it creates is very nice. Not a necessity, but as I said, very nice. I have bought online from Camden-Grey and Brambleberry.
- 3) **Beeswax**- As you probably know used since ancient times as a modeling wax. I use the natural yellow. Add to any of the formulas to increase softness or workability. Available at too many places to list.
- 4) **Stearin**- Available at candle shops or craft supply shops. Sometimes called Stearic Acid. Increases "carveability" without increasing hardness significantly.
- 5) **Titanium Dioxide**- Not as bad as it sounds. Used in everything from toothpaste to sunscreen. Available at ceramic supply houses. Increases opacity and white-ness. Oil paint can be substituted. Other colorants like yellow ochre and red iron oxide can be used as well. They also are available at ceramic supplies. I use MidSouth Ceramic in Nashville, Tn.
- 6) **Rosin**- Wonderful pine scent. I got mine as a "batter's bag" at local sporting goods shop. Careful to add to melting mix last. I grind mine with equal part of cornstarch in small electric coffee grinder to make mixing in melt easier and more stable.
- 7) **Talcum**- Make sure it's all Talc and not cornstarch. Available almost anywhere.
- 8) **Cornstarch**- Use finely ground like ARGO brand. Available at any grocer.
- 9) **Paraffin**- I use Gulf wax from grocer. It adds firmness but not hardness (at least compared to Carnauba or Candelilla.

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Wax Pointers

A few quick pointers that I failed to mention in the PDF:

- 1) A few of these mixes (particularly the high carnauba blends) act the opposite of what one might expect. They tend to be crumbly right after cooling, but then develop a more stiff putty feel right before they become cold. If they're crumbling, just keep working the wax as it cools and you'll find the proper temp for modeling. It is NOT the highest temp before melt as one might expect.
- 2) Most resources suggest continually stirring the wax to keep the wax from "layering" or separating as it cools. I find it much easier to immediately pour the mix into a shallow pan in a thin layer which cools immediately before it has a chance to separate.
The thin pieces are easy to handle and are very easy to warm evenly for modeling.
- 3) If you add any colorants like the titanium or red iron, stir the melted mix with a "natural" bristle broad paint-brush to thoroughly distribute the colorants. Don't use a synthetic brush as it can melt and make a heck of a mess.
- 4) If you add any dry materials (colorants or talc) be sure to filter the final mix through either cheesecloth or pantyhose. I have my wife save them for me(to use for this purpose only...no bad jokes please). This helps ensure that no unmixed clumps pass thru.
- 5) If you add any rosin be sure to do this last and over a lower heat. Rosin will clump together as a gooey clump in if it not heated evenly and at just a low enough temperature to melt it. Any higher and it will scorch into hard lumps! I dry grind rosin with an equal amount of cornstarch in a small coffee grinder that I bought for \$15 at Wal-Mart and that works real well. The cornstarch seems to help distribute the rosin in the melt. Be sure to strain as mentioned above.