

# BOMAR

## ANALYSIS

PRODUCT	NATURE SOY WAX C-3 (Flakes)
CODE	CSC3
BOMAR BATCH	R0413 (23036127)

DESCRIPTION	Hydrogenated vegetable-based glyceride blend derived from soybeans with non-hazardous additives
USES	Ready-to-use, vegetable-based, soy wax developed primarily for use in container candles, where it provides full glass adhesion and resistance to grease bloom. It is also suitable as a softener for pillar candles. Other Uses: Paper cup liners, stationery pencils, colored pencils, ink ribbons, mold lubricants, textile finishing, sizing, cable lubricants, metal lubricants, adhesives, thermoplastic resin additives, leather dressings, and crayons.

TECHNICAL PROPERTIES CHEMICAL / PHYSICAL	RESULT	UNITS	LIMIT			METHOD
			Min.	TYPICAL	Max.	
Red Colour	0,7				1,5	AOCS Cc 13j-97
FFA	0,04	%			0,15	AOCS Ca 5a-40
Peroxide Value	0,14	meg/kg			1,5	AOCS Cd 8b-90
Iodine Value	54,75		50		56	AOCS Cd 1c-85
Melting Point	53,83	°C	51	53	55	AOCS Cc 18-80
Manufacture Date	April 2022					
Expiration date	April 2025					

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<b>BIOENGINEER STATUS</b>	NatureWax® C-3 is produced with IP-free (identity preserved) soybean oil, commonly known as "genetically modified" (GM). Although GM soy is used in the manufacturing process, analysis for the presence of genetic material (DNA), modified or not, gave a non-detectable result in the final product. Qualitative polymerase chain reaction (PCR) is the analytical technique used to determine the presence of small amounts of DNA. More information available on request.
<b>PACKAGING &amp; LOT</b>	<b>Batch Code Format</b> The Lot Code is a unique number generated by our sales order system. From this unique number, we can trace through our processing steps within our Quality Control System to the source of the oil(s).
<b>EXPIRATION, SHIPPING AND STORAGE</b>	<b>Product Shelf Life</b> 3 years from the indicated date. Testing towards the end of the stated shelf life may allow the shelf life date to be extended. Request assistance if necessary.  <b>Shipping and storage conditions</b> For ease of use, store at 18-30°C. Protect from extreme heat and cold (temperatures above 32°C and below 5°C).

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<p><b>MANIPULATION, FUSION AND ADVICE FOR MANUFACTURE OF CANDLES IN GLASS</b></p>	<p><b><u>1<sup>o</sup>) Fusion:</u></b> The wax must be heated to a temperature of 160 to 200°F (71.1 to 93.3°C) to melt the wax. Do not heat wax above 200°F (93.3°C). If the wax is held at higher temperatures for long periods of time, it will discolor. Always use a thermometer when melting wax and never leave your heated wax unattended. As the wax melts, stir the wax regularly to reduce localized heating of the wax. This will help reduce burning of the wax as it heats.</p> <p><b><u>2<sup>o</sup>) Addition of ingredients (other than flavor and dye):</u></b> Other additives or ingredients can be added at any time to help improve the performance of the wax.</p> <p><b><u>3<sup>o</sup>) Addition of aroma and colourings:</u></b> Fragrances and colorants should be added to the wax after the wax is completely liquid. Be sure to stir the wax completely to ensure that the fragrances and dyes are completely mixed</p>								
<p><b>MANIPULATION, FUSION AND ADVICE FOR MANUFACTURE OF CANDLES IN GLASS</b></p>	<p><b><u>4<sup>o</sup>) Preparation of wax for pouring:</u></b> After the wax has completely melted, reduce the heat on the wax so that the wax cools to a temperature of 120 to 165°F (48.9 to 73.8°C). This will reduce cracking and discoloration of the wax after it has cooled. The pour temperature should match the ambient temperature recommendations in the table below for best results.</p> <p><b><u>5<sup>o</sup>) Wax pouring:</u></b> Make sure the container is at room temperature or slightly warmer before you pour the wax into the container. The wax should be poured into the container while the wax is 120 to 180°F (48.9 to 82.2°C) to reduce cracking and speed up the curing time of the wax. If the wax is to be left to melt overnight, the wax should be stored at 130 to 145°F (54.4 to 62.8°C).</p> <table border="1" data-bbox="619 1675 1369 1877"> <thead> <tr> <th>Atmosphere Temperature</th> <th>Liquid Wax Temperature</th> </tr> </thead> <tbody> <tr> <td>15.6 to 21.1°C</td> <td>76.7 to 82.2°C</td> </tr> <tr> <td>21.1 to 26.7°C</td> <td>71.1 to 76.7°C</td> </tr> <tr> <td>26.7 to 32.2°C</td> <td>62.8 to 68.3°C</td> </tr> </tbody> </table>	Atmosphere Temperature	Liquid Wax Temperature	15.6 to 21.1°C	76.7 to 82.2°C	21.1 to 26.7°C	71.1 to 76.7°C	26.7 to 32.2°C	62.8 to 68.3°C
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## **6°) Candle drying:**

The candle should be allowed to cool and dry for at least 12 hours before it burns out. This will allow the crystals in the wax to fully form giving a beautiful finish to the candle.

### **Notes:**

- ✓ Recommended maximum fragrance: 6%
- ✓ A 7-10% fragrance load can be added with the addition of additives to help control fragrance
- ✓ Candles larger than 3.5 centimeters in diameter may need a thicker wick to ensure proper full burn.
- ✓ Works well with liquid or powdered food coloring.

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