

Geomar Concept SRL

VAT/EORI RO43316318

Registration J23/5394/2020

Registered Address: Codrului 9A, Tunari, Ilfov, 077180, Romania

Warehouse: Zborului 2, Stefanestii de Sus, Ilfov, 077177, Romania

RON - RO52 ROIN 4021 6AGT FKI9 73Y4

EUR - RO93 ROIN 4021 DO2N SLG6 RX7H

GBP - RO84 ROIN 4021 1UJW GPKK 74X3

USD - RO27 ROIN 4021 OBVR D3M2 4AWT

Salt Bank, BIC/SWIFT: ROINROBU

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YUCCA WAX ENW733P

Technical Data Sheet

Made in: EU

Description: Natural wax blend **YUCCA WAX ENW733P** is specially developed for the production of pillar candles and wax melts in molds. It is composed of soy waxes, with a natural white color, in the form of pellets. For direct use - no need for additives.

Application: Pillar candles**Properties:**

- Plant based, organic raw materials candles
- Contains no residual solvents, no artificial coloring or fragrances
- Smooth surface
- No shrinkage of the wax on the sides as the candle cools
- Easy removal of candles from the molds, without cracking and breaking the candle
- Clean and long burning

Technical Specification:

Measured Property	Method	Unit	Specification
Mettler Dropping Point	ASTM D3954	°C	52 – 58
Needle Penetration, 25 °C	ASTM D1321	mm/10	22 – 26
Color Saybolt	ASTM D156	numeric	12 – 18

Storage: Store at cool dry places (15 – 30 °C), protected from direct sunlight, moisture and direct heat exposure.



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Format / Packing: YUCCA WAX ENW733P is provided in pellets, packed in 15 kg cardboard boxes.

Manufacturing Notes: YUCCA WAX ENW733P requires no additives. Partial candle material or wax may be remelted and reused.



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Working instruction

Work space and conditions

Conditions are important for consistent result, therefore we recommend careful management of room temperature, humidity and airflow. Room temperature should be 23 – 26 °C. Relative humidity should be kept low 20 – 40 %. Air flow should be minimum, no direct exposure of the candle surface.

Moulds

Use stainless steel, polycarbonate or silicone moulds. Other materials can cause discoloring. Check moulds for contaminants. They should be clean without dust or water drops. We recommend conditioning the moulds to at least room temperature before pouring the wax.

Color

Natural waxes are more intense in color than paraffin wax, and this should be considered when determining the amount of dye. The final color of your candle depends on the type of dye, its compatibility with the wax, and its concentration.

When using solid dyes (blocks, pellets, etc.), it is often necessary to heat the wax to 75 – 85 °C to completely dissolve the dye. In these cases, to avoid overheating natural waxes, we recommend dissolving the dye in a small volume of melted wax (concentrate), which is then added to the remaining amount of melted wax. Stir with a mixer or other suitable means for at least 30 – 60 seconds to ensure complete dissolution of the dye.

Always work according to the manufacturer's instructions, as the dye may require a different method of dissolution than the one indicated above.

Wicking

Choosing the right wick depends primarily on the configuration of the candle, but the dye also plays a role. Natural wax candles typically require larger wick sizes than paraffin wax candles of the same diameter. A wick that is too large will cause soot buildup, a large melt layer, and rapid and uneven burning. A wick that is too small will cause a tunneling out and a small flame.

Melting



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Melt the wax slowly in a wax melter or in a special apparatus, stirring while melting. Monitor the temperature and avoid heating above 90 °C. Even for a short period, exposure to high temperatures can change the color and properties of the wax.

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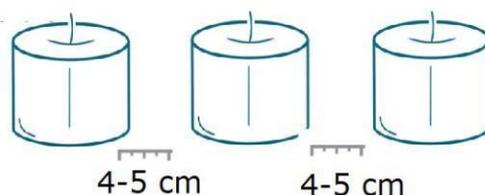
Pouring

Once you have colored the wax, you can proceed to pour it into the mould. The pouring temperature is different for each type of wax - some are poured at a higher temperature, as they require a longer time to harden, while others should be poured at a lower temperature to harden as quickly as possible.

The recommended pouring temperature for **YUCCA WAX ENW733P** is 65 – 70 °C. If you are not satisfied with the appearance of the finished candle, try a 5 °C lower or higher temperature. Pour slowly, at a constant speed. For pillar with larger diameters second pour might be required. We recommend testing the pouring temperature on a few pieces before mass production for each size and type of candle.

Cooling

Natural wax candles require correct cooling. Poured moulds should be placed 4 – 5 cm apart to provide even cooling. Storage must be at a maximum constant temperature (day and night).



Burning test

Let the candles cure for at least 72 hours before burning. The recommended curing period for natural wax candles is 2 weeks.

Candles should burn for 3 – 5 hours continuously after the first lighting to evaluate the wick. During the test, observe the diameter of the pool (melted wax), the size of the flame, and watch for the formation of soot and mushrooms on the wick. Mushrooming occurs when carbon and/or other substances build up at the end of the wick. Try different wicks until you achieve a good burn and a clean flame. The optimal size of the candle flame is 18 – 24 mm.

Testing of pouring temperature and burning behavior is advised prior batch production for every candle size, mould type, dye and wick.

Storage

Natural waxes are prone to oxidation. Oxidation leads to discoloration and loss of properties. To prevent this, follow the storage recommendations written above!



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