	<b>PRODUCT TECHNICAL SPECIFICATION</b>	<b>No.</b>	<b>WT-2020/LP-115</b>
	<b>FORMOWAX HARD WAX</b>	<b>Edition no.</b>	<b>1</b>
		<b>Date</b> (Of actualisation)	<b>March 23th, 2020</b>

## 1. INTRODUCTION

**1.1. Subject.** The subject of this document is Formowax hard wax which is obtained as a blend of stearic acid, paraffin waxes with corresponding synthetic copolymers and dye.

**1.2. Range of the WT subject usage.** The product is used to perform in investment casting industry to produce wax patterns.

## 2. LABELLING

### 2.1. Labelling examples:

FORMOWAX HARD WAX

WT-2020/LP-115

## 3. QUALITY REQUIREMENTS AND TEST METHODS

### 3.1. Standard parameters and test methods.

**Table 1.** – Quality requirements valid for each batch of the product:

Parameters	Unit	<b>FORMOWAX HARD WAX</b> parameter value	Test method
1	2	3	4
a) Congealing point	°C	60 - 75	PN-C-04018:1977 ASTM D 938-92
b) Drop point	°C	80 - 90	PN-ISO 6244:2012
c) Penetration at 25 °C	mm·10 <sup>-1</sup>	8 – 15	PN-C-04313:2018 ASTM D 1321
d) Kinematic viscosity at 100°C	mm <sup>2</sup> /s	6,0 – 8,5	PN-EN ISO 3104:2004
e) Ash residue	%	max. 0,0015	PN-EN ISO 6245:2008

**3.2. Sample taking.** According to PN-EN ISO 3170:2006.

## 4. PACKAGING, STORAGE AND TRANSPORTATION

**4.1. Packaging** Formowax is stored in the following ways:

- slabs in cardboards 24 kg,
- cardboard 20 kg
- granules in a polyethylene bags 20 kg on a wooden pallet 600 kg.
- slabs on wooden pallet 1000 kg,

- pastilles in a polyethylene bags 20 kg.

The method of packaging and storage is in accordance with the regulations of transportation of petroleum products described in national and international transportation law.

It is admitted to use other kind of packages previously agreed between recipient, producer and carrier, in condition that product is protected well.

On each package should be placed a label with at least following information:

- a) producer name,
- b) address of producer
- c) labelling according to the point 2.,
- d) mass net or volume,
- e) date of production,
- f) control number.

**4.2. Storage.** Formowax should be stored in closed packages in a shaded place protecting against direct access of sun (UV radiation), humidity and mechanical impurities, far from the heat radiators. Shelf Life of the product stored in accordance with the above guidelines is 3 years.

**4.3. Transportation.** The product is not classified as dangerous when shipped by all means of transport and is not a subject of the transportation regulations RID/ADR.

## 5. ADDITIONAL INFORMATION

**5.1. Institution preparing WT:** Polwax S.A., Jasło, Poland


### 5.2. Standards and referenced documents

PN-EN ISO 3170:2006 – Petroleum liquids. Manual sampling.

Other standards related: table 1


**Checked:**

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