

	PRODUCT TECHNICAL SPECIFICATION	No.	WT-2004/LP-09
	Wax S	Edition no.	16
		Date (last actualization)	September 11th, 2025

1. INTRODUCTION

1.1. Subject. The subject of this document is Wax S obtained as a mixture of refined light and heavy slack waxes and beeswax.

1.2. Range of the WT subject usage. Wax S is used in dairying for covering a surface of growing ripe cheeses. The product is designed for contact with foodstuffs.

2. LABELLING

2.1. Labelling examples

Wosk plastyczny S

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3. QUALITY REQUIREMENTS AND TEST METHODS

3.1. Standard parameters and test methods – according to the table 1.

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

Parameters	Units	Wax S parameter value	Test method
a) Congealing point	°C	59-75	PN-ISO 2207:2011 ASTM D 938
b) Flash point (o.c.)	°C	min 180	PN-EN ISO 2592:2017-10 ASTM D 92-97
c) Needle penetration at 25°C	mm·10 ⁻¹	max 48	PN-C-04313:2018-02 ASTM D 1321
d) pH of water extract		neutral	PN-C-04064:1984
e) Acidity number	mgKOH/g	0,2	PN-ISO 6618:2011
f) Kinematic viscosity at 100°C	mm ² /s	evaluate, indicate in certificate	PN-EN ISO 3104:2004
g) Appearance		Dark yellow homogenous mass, gold in thin layer	Visual
h) Ash remainder	%	0,03	PN-EN ISO 6245:2008
i) Odour		Evaluate, indicate in certificate	ASTM D 1833
j) Adhesion		According to requirements	Point 3.3 of technical specification

3.2. Sample taking – according to PN-EN ISO 3170:2006.

3.3. Adhesion research – A small sample of wax (about 10 g) melt at temperature 70°C in small evaporator. Melted wax should pour out on sheet of blotting paper or filter to form a layer of thickness 0,5 mm. When temperature will drop down to temperature 20±3°C, a blotting paper (or filter) break through while the

wax have to be an external layer. Wax S is according to the requirements if the wax layer on the paper will not break or crack.

4. PACKAGING, STORAGE AND TRANSPORTATION

4.1. Packaging. Wax S is stored in a following way:

- Cardboards 20 kg,

The method of packaging and storage are 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. Wax S should be stored in temperature not exceeding 30°C, 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.

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