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|  | PRODUCT TECHNICAL SPECIFICATION | No. | WT-2011/LP-59 |
| | Ceresin white | Edition no. | 12 |
| | | Date (Of actualisation) | June 27th, 2019 |

1. INTRODUCTION

1.1 Subject. The subject of this document is ceresin white obtained in deoiling of the heavy slack wax, purified then in contact adsorption process.

1.2 Range of the WT subject usage. Ceresin white is applied to production of lubricants, impregnation and protective products in the chemical industry, candle industry and in other industries. The product could be designed for contact with foodstuffs.

2. LABELLING

2.1 Labelling examples:

Cerezyna biała odwoniona

WT-2011/LP-59

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 | Ceresin white parameter value | Test method |
|---------------------------------|---------------------|-------------------------------|-----------------------------------|
| 1 | 2 | 3 | 4 |
| a) Congealing point | °C | 68 – 76 | PN-ISO 2207:2011 ASTM D 938 |
| b) Drop melting point | °C | 70 – 80 | PN-ISO 6244:2012 |
| c) Oil content | % (m/m) | max. 1,5 | PN-C-04160:1980 ASTM D 721-97 |
| d) Kinematic viscosity at 100°C | mm ² /s | 12 - 20 | PN-EN ISO 3104:2004 |
| e) Colour | - | max. 0,5 | ASTM D 1500 |
| f) Needle penetration at 25°C | mm·10 ⁻¹ | 15 - 25 | PN-C-04313:2018-02 ASTM D 1321 |
| g) Ash remainder | % (m/m) | max. 0,05 | PN-EN ISO 6245:2008 |
| h) pH of water extract | - | neutral | PN-C-04064:1984 |

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

4. PACKAGING, STORAGE AND TRANSPORTATION

4.1. Packaging Ceresin white is stored in the following way:

- Liquid loose in heated storage tanks,
- Pastilles in a polyethylene bags 20 kg,
- Granules in a polyethylene bags 20 kg,
- Slabs on a wooden pallet max. 1000 kg,
- Cardboards 20 kg.

Way of packing covered by GMP:

- Pastilles in a polyethylene bags 20 kg,
- Slabs on a wooden pallet max. 1000 kg,
- Cardboards 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) name of producer,
- b) address of producer,
- c) labelling according to point 2,
- d) mass-net or volume,
- e) date of production,
- f) control number.

4.2 Storage. Ceresin white should be stored in closed packages in a shaded places protecting against direct access of sun, humidity and mechanical impurities, far from heat radiators, at temperatures not exceeding 30°C. Shelf Life of the product stored in accordance with the above guidelines is 5 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

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