

**PRODUCT INFORMATION**

# WARADUR® S

## Product Description

WARADUR® S is a mixture of montanic acids. Montanic acids are straight-chained monocarboxylic acids with a chain length in the range of C28 – C32 and exhibit a good thermostability and a low volatility.

## General Advantages

High effectiveness at low concentrations: WARADUR® S is suitable for a wide range of plastics applications, mainly as external release agent, dispersing agent, gloss booster and surface improver. WARADUR® S is suitable for engineering plastics, thermosets, etc.

## Examples of Use

- Thermoplastics: ABS and copolymers
- Thermosets: epoxy resins, phenolic resins
- Dispersing agents for colour masterbatches

## Delivery Specifications \*

Characteristics	Unit	Target value	Method
Acid value *	mg KOH/g	135 – 160	ISO 2114
Saponification value *	mg KOH/g	155 – 180	ISO 3681
Drop point *	°C	82 – 88	ASTM 3954
Colour	–	pale yellow	AA 3.2.1.505
Viscosity @ 120 °C	mPas	10 – 15	AA 3.2.1.520
Density	g/cm <sup>3</sup>	1.00 – 1.02	Ph. Eur. 2.2.5

## Packaging and Handling

Physical form	Flakes or powder
Packaging	Paper bag or Big Bag
Storage	Store at ambient temperature on a dry place. Protect from heat/overheating and direct sunlight. The minimum remaining period is 1.5 years and is defined as the minimum shelf life at the customer. Thereafter, tests of the chemical characteristics are recommended. The maximum shelf life of 5 years is indicated.

## Safety

WARADUR® S

- is made from a fossil biological source
- is not classified as carcinogenic, mutagenic or reprotoxic; no health or environmental hazards are known, provided it is applied in industrial and professional settings

## Delivery Time and Availability

Standard delivery time: 2 – 3 weeks. Preconditions can be met for achieving shorter delivery times on standard products when demanded by the market.

## Legislation

Food contact legislation:

- FDA 175.105 Adhesives
- FDA 177.2600 Rubber articles intended for repeated use
- FDA 176.210 Defoaming agents used in the manufacture of paper and paperboard
- Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food

Other legislation:

- REACH, RoHS and CONEG compliant
- Listed in all relevant National Inventories

For further information, please contact [application@voelpker.com](mailto:application@voelpker.com).