Progres® – the only resin acid product for animal feeds.
Powerful and scientifically proven:

Published articles:


Published abstracts and posters:

Hasan, S., Junnikkala, S., Peltoniemi, O., Oliviero, C. (2017). Dietary supplementation of tall oil fatty acid and resin acid in farrowing sows can affect the colostrum quality. At: The 9th European Symposium of Porcine Health Management (ESPHM) 2017, Prague, Czech Republic. (Poster)


PROGRES®
PRODUCT DATA
SPECIFICATION
Updated 01.06.2018

FEED MATERIAL

- Innovation from Finnish forest supporting productivity of animals
- Contains tall oil fatty acids and resin acids
- Nutritional energy source

INGREDIENTS

Tall Oil Fatty Acids, TOFA (Feed material register number 03721-EN)
Antioxidants (E320, E321)

FEEDING INSTRUCTIONS / RECOMMENDED DOSAGE

- Broiler feeds: 0.5 – 1 kg/t of feed
- Turkey feeds: 0.5 – 1.5 kg/t of feed
- Other poultry feeds: 0.5 – 1 kg/t of feed
- Pig feeds: 0.5 – 1.5 kg/t of feed
- Calf feeds: 1 kg/t of feed
- Dairy cows: 7 – 10 g/day/cow

CONTENT

- Free fatty acids: 90-92 %
- Resin acids: 8-10 %

TYPICAL FATTY ACID PROFILE

- Linoleic acid: 40.0 %
- Oleic acid: 26.9 %
- Pinolenic acid: 6.3 %
- 18:2 conjugated fatty acids: 6.1 %
- Other fatty acids: 9.3 %
- Unsaponifiables: < 2.0 %

ENERGY VALUES

- AME poultry: 33.9 MJ/kg (8100 kcal/kg)
- NE pig: 30.9 MJ/kg (7380 kcal/kg)
- ME cattle: 29.2 MJ/kg (6970 kcal/kg)

UNDESIRABLE SUBSTANCES (ACCORDING TO EU LEGISLATION AND GMP+ LIMITS)

- Sum of dioxin PCDD/F, TEQ: max 0.5 ng/kg
- Sum of dioxin-like PCB, TEQ: max 0.5 ng/kg
- As: max 2 mg/kg
- Cd: max 1 mg/kg
- Pb: max 10 mg/kg
PHYSICAL PROPERTIES

Oil, yellow liquid
Density
- 914 g/l (20 °C)
- 908 g/l (30 °C)
- 902 g/l (40 °C)
Dynamic viscosity
- 35 mPa·s (20 °C)
Kinetic viscosity
- 39 cm²/s (30 °C)
Flash point
- 200 °C
Cloud point
- 2 °C

STORAGE AND HANDLING

Shelf life is 12 months from the production date, if stored in the original container according to the following instructions.

The product must be stored in a closed container or tank, away from sunlight. The recommended storage temperature for the product is 15-30 °C. Storing at temperatures differing from the recommended storage temperature may cause darkening (> 30 °C) or clouding (< 15 °C). Decreasing temperature increases viscosity of the product. Storing in cold temperature (< 10 °C) for longer periods can cause some precipitation or crystallization. This is a normal characteristic of the product. If affected, the crystallized product can be dissolved by heating it gently up to 50 °C. The heating does not have any effects on the functionality of the product. For minimizing the oxidation, it is recommended to avoid aeration of the product by strong mixing or circulation. Storing in carbon steel tanks is not recommended since fatty acids will react with iron and discolor the product.

The product is safe to use under recommended dosage levels. Progres® should not be used in premixes or mineral feeds. Porous material such as textiles, paper etc. might cause an exothermic reaction and overheating when wetted with this material. Information on the safety can be found in Material Safety Data Sheet.

PACKAGING

IBC container, drum and canister. Bulk deliveries also available.

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