BLOWN/OXIDIZED CASTOR OIL 26/34 P

Technical Data Sheet

November 2023

Specifications	Value
Density at 25 ºC g/cm ^{3}	0,987 – 0,991
Viscosity at 25 ºC p	26 – 34
Acid value mg KOH/g	≤ 10
Partition coeff. Octanol/water	< 7,28
Iodine value (Hanus)	60 – 75
Gardner colour	≤ 10
Melting point ºC	≤-20
Flash point ºC	172
Hydroxyl value	150
Solubility in water at 20°C mg/L	< 0.0524
Appearance	Clear liquid
Odour	Typical

Molecular weight	Not applicable
CAS number	68187-84-8
EINECS number	269-128-4
CN Code	15180091

Fatty acids composition (%)

Palmitic acid	1 – 3
Stearic acid	1 – 3
C18: 2 Linolenic acid	2 – 6
C18: 1 Oleic acid	2 – 8
C18: 1 Ricinoleic acid	82 – 95

Description

Blown 26/34 p Castor oil *is* a UVCB substance (vegetable origin) of variable fatty acids composition, which is obtained by physical thermal oxypolimerization process of castor oil to increase its viscosity and surface activity.

Function

Blown 26/34 p Castor oil, has much more presence of acid radicals due to the process of oxypolymerization, and maintains the hydroxyl group of the starting oil. All this results in the incorporation of more oxygen bridges that saturate double bonds than in ***Blown 18 P.***

Properties

Blown 26/34 p Castor oil has not Linolenic acid in its composition: For this reason, prevents possibility of yellowing for action of sunlight and heat.

Blown 26/34 p Castor oil is a good plasticizer due to non-volatility and compatibility polar resins. Very chemically stable product.

Blown 26/34 p Castor oil has a high polymerization, for this reason is more compatible than Castor oil, reducing even further the exudation problem.

Blown 26/34 p Castor oil copolymerizes with polyhydric alcohols allowing an excellent internal plasticization.

Blown 26/34 p Castor oil has high surface activity, so facilitates the wetting of pigments in paints and enamels.

REACH

Register number 01-211997853-31-0002

Application

Blown 26/34 p Castor oil has a high surface activity and viscosity. It is used in untreated oils. Lacquers and synthetic leather of nitrocellulose, adhesives, gums and sealants. Polyurethanes because it polymerizes with polyhydric alcohols, polar resins and fat inks. Drying oil for coatings and varnishes.

In lubricants and greases industry for its good properties at low temperatures and good lubricity at high temperatures. Insoluble with synthetic mineral oils.

Dosage

5% on solids as drying / plasticizing oil in polyurethane resin varnishes and nitrocellulose-based paints.

Packaging

IBC of 1000 kg and drums of 200 kg.

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