

Technical data sheet

ALBERDINGK® Castor Oil First Special Grade (FSG)

Characteristic:

Castor oil First Special Grade is a non-drying, refined oil won from the seeds "Ricinus communis L." which is different to other vegetable oils due to its special molecular structure.

Appearance: Clear liquid, free from suspended matter.

Specification:

			According to:
Acid value	mg KOH/g	max. 2	ISO 660
Iodine colour value		max. 3.5	DIN 6271
Gardner colour value		max. 4.0	ISO 4630
Water content	%	max. 0.3	ISO 8534
Refractive index		1.4783 - 1.4800	ISO 6320
Iodine value acc. to Wijs	g Iod/100g	82 - 89	ISO 12966
Hydroxyl value	mg KOH/g	min. 160	ISO 12966

Further typical data*:

			According to:
Saponification value	mg KOH/g	175 - 187	ISO 12966
Viscosity acc. to Höppler at 20°C	dPas	9.5 - 11.0	ISO 12058-1
Solubility			
miscible in any ratio with ethanol (95%)			

Applications:

Besides its use in industry paints based on ricinene-alkyds, castor oil is used in the plastics, fibre, textile and leather-auxiliaries industry. It is also needed in the production of polyols for polyurethane systems, plasticizers, printing inks, soaps, wetting agents and lubricants.

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Properties:

Castor oil has a unique structure. The triglyceride has up to 85 - 90 % of the so called ricinoleic acid (12-hydroxy-oleic acid), which is responsible for the chemical, physical and physiological properties. Castor oil is non-drying; in contrast to other vegetable and animal oils or fats, it is soluble in alcohol and has a viscosity which is 20 times as high. Chemical reactions with the ester groups, the double bondings and the hydroxyl groups allow a wide range of possibilities to produce various derivatives from castor oil.

Storage:

The storage life can be guaranteed for minimum 12 months in tightly locked containers and at a temperature of + 10 °C up to + 30 °C.

A turbidity of the oil due to coldness is reversible and can be removed by heating up to more than 40 °C.

Safety:

For further information on product safety please refer to the current safety data sheet.

Notice:

* General information - the values can not be considered as part of the product specification.