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## **CASTOR OIL, REFINED** **MATERIAL SPECIFICATIONS**

**PRODUCT DESCRIPTION:** The Castor Oil plant has been cultivated for more than 6,000 years (Egypt). Major growing countries today are India, Brazil and China, to a lesser extent Thailand, the Philippines and Pakistan. The walnut-sized capsule of the Castor shrub (*Ricinus communis* L.) contains three bean-sized seeds with 40- 55% fatty oil each. Castor oil refined is won by pressing with subsequent deacidification and bleaching. It is of light yellowish colour and very mild in odour and taste. The oil is easily soluble in alcohol, ether, glacial acetic acid, etc., however insoluble in aliphatics (benzene).

### **PROPERTIES**

Density (20° C)  
Refractive Index (20° C)  
Optical Rotation  
Viscosity  
Absorption (268 - 270nm)  
Acid value  
Hydroxyl value  
Peroxide value  
Iodine value  
Saponification value  
Unsaponifiable matter  
Colour Gardner

### **TYPICAL ANALYSIS**

0,952 - 0,965  
1,477 - 1,481  
+3,0° - +6.0° '   
950 - 1100 mPa xs  
max. 1,5 [1% (m/V) solution in Ethanol, 96%]  
max 1,0  
min. 160  
max. 5,0  
82 - 90  
176-187  
max. 1,0% (m/m)  
max. 1,5

**SHELF LIFE:** 18 Months

**STORAGE:** Light protected, not above room temperature, in tightly sealed containers (nitrogen blanketed).

**USAGE:** Castor Oil pharmaceutical-refined is distinguished foremost by its temperature, independent invariable viscosity and strong adhesive power. Its natural origin is appreciated by the pharmaceutical industry where it is used as a medicine (laxative) and as raw material component. The oil is also used in the manufacture of cosmetics and of sophisticated technical products (e.g. medical equipment).

This specification was developed with utmost care based on up-to-date information available, but should also be scrutinized by the recipient. It does not release him from checking the quality of goods delivered with proper diligence.

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