



ALBERDINGK BOLEY

Linseed Oil and Castor Oil

for various applications



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|------------------------|
| PU Casting Resins |
| PU Foams |
| PU Adhesives |
| PU Floor Coatings |
| PU Coatings |
| Alkyd Resins |
| Oil Paints |
| Wood Care |
| Wood Protection |
| Natural Paints |
| Corrosion Protection |
| Architectural Coatings |
| Printing Inks |
| Pigment Pastes |
| Plasticizers |
| Lubricants |
| Pharmaceuticals |
| Cosmetics |

ALBERDINGK® LINSEED OIL

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|-----------------------|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Crude LO | | | | | | | | | | | | | | | | | | | | |
| Refined LO | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Refined LO Winterized | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Pale Refined LO | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

ALBERDINGK® LINSEED OIL DERIVATIVES

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|----------------------------------|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Double Boiled LO | | | | | | | ● | ○ | ● | ● | ● | ● | ● | ○ | ● | | | | | |
| LO Stand Oil 0,7-1 ... 450 dPa s | | | | | | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | | | | |
| Blown Refined LO - 3/30 dPa s | | | | | | ● | ● | ○ | ○ | ● | ● | ● | ● | | ● | | | | | |
| LO Reduced 30/40/60% | | | | | | | | | | | | | ● | | | | | | | |

ALBERDINGK® CASTOR OIL

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|----------------------------------|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|---|---|---|---|---|
| CO First Special Grade / No. 1 | ● | ● | ● | ● | ● | ○ | | | | | | | | | | ● | ● | ● | | |
| CO DIN Quality / Pale Pressed | ● | ● | ● | ● | ● | ○ | | | | | | | | | | ● | ● | ● | | |
| CO Low Acid 0.7 | ● | ● | ● | ● | ● | | | | | | | | | | | ● | ● | ● | | |
| Albodry CO PU Quality | ● | ● | ● | ● | ● | | | | | | | | | | | ● | ○ | ○ | | |
| Albodry CO Pharma DAB Special | ● | ● | ● | ○ | ○ | | | | | | | | | | | | ○ | ○ | ○ | ○ |
| Pharm. CO Virgin Ph. Eur. | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | ○ | ○ | ● | ● |
| Pharm. Refined CO DAB / Ph. Eur. | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | | ○ | ○ | ● | ● |

ALBERDINGK® CASTOR OIL DERIVATIVES

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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Blown CO 17 ... 90 dPa s | ● | ● | ● | ● | ● | ○ | | | | | | | | | | | | ● | | |
| Dehydrated CO (DCO) | ○ | | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| Dehydrated CO 50 (DCO 50) | ● | | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | | | |
| CO PD | ● | ○ | ● | ● | ● | ○ | | | | | | | | | | ● | ● | | | |
| Dehydrated CO Stand Oil 8/45 dPa s | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| Dehydrated CO Fatty Acid Highly Conjugated | | | | | | ● | ● | | | | | | | | | | | | | |
| HCO 52, Flakes and Powder | ● | ● | ● | ● | ● | ● | | ● | | ● | | | | | | | | ● | | |
| HCO Flakes 81 | ● | ● | ● | ● | ● | ● | | ● | | | | | | | | | | ● | | ● |
| 12-HSA 52, Flakes and Powder | | | | | | ● | | | | | | | | | | | | ● | | |
| 12-HSA Flakes 81 | | | | | | ● | | | | | | | | | | | | ● | | ● |

ALBERDINGK® SPECIALTY PRODUCTS

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|---|---|--|---|---|---|--|---|--|--|---|---|---|--|--|--|--|--|--|--|--|
| Albolith MS C 350 Molecular Sieve Paste | ● | | ● | ● | ● | | | | | | | | | | | | | | | |
| Albothix 82-32 Thixotropic Agent | ● | | ● | ● | ● | | ● | | | ● | ● | ● | | | | | | | | |
| Albothix 85-32 Thixotropic Agent | ● | | ● | ● | ● | | ● | | | ● | ● | ● | | | | | | | | |

| Colour [Gardner max.] | Acid Value [mg KOH/g] | Water Content [% , max.] | OH Value [mg KOH/g] | Iodine Value [g Iod/100 g] | Melting Range [°C] | Viscosity [dPa s at 20° C] |
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ALBERDINGK® LINSEED OIL

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|-----------------------|-----|--------|-----|--|----------|--|-------------|
| Crude LO | | max. 4 | 0.2 | | min. 175 | | |
| Refined LO | 4 | max. 1 | 0.1 | | min. 175 | | 0.45 - 0.50 |
| Refined LO Winterized | 4 | max. 1 | 0.1 | | min. 175 | | 0.45 - 0.50 |
| Pale Refined LO | 2.5 | max. 1 | 0.1 | | min. 175 | | 0.45 - 0.50 |

ALBERDINGK® LINSEED OIL DERIVATIVES

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|----------------------------------|--------|-------------|-----|--|-----------|--|-----------|
| Double Boiled LO | 8 - 12 | max. 5 | 0.2 | | | | 0.7 - 1.0 |
| LO Stand Oil 0,7-1 ... 450 dPa s | 5...8 | max. 5...12 | | | 100 - 120 | | 0,7...450 |
| Blown Refined LO - 3/30 dPa s | 8/12 | max. 5/7 | | | 110...160 | | 3/30 |
| LO Reduced 30/40/60% | | | | | | | |

ALBERDINGK® CASTOR OIL

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|----------------------------------|----|--------------|------|----------|---------|--|----------|
| CO First Special Grade / No. 1 | 4 | max. 2 | 0.3 | min. 160 | 82 - 89 | | 9.5 - 11 |
| CO DIN Quality / Pale Pressed | 2 | max. 1.5 | 0.3 | min. 160 | 82 - 89 | | 9.5 - 11 |
| CO Low Acid 0.7 | 4+ | max. 0.7/0.9 | 0.3 | min. 160 | 82 - 89 | | 9.5 - 11 |
| Albodry CO PU Quality | 4 | max. 2 | 0.05 | min. 160 | 82 - 89 | | 9.5 - 11 |
| Albodry CO Pharma DAB Special | 1 | 0.57 - 0.65 | 0.02 | min. 160 | 82 - 90 | | 9.5 - 11 |
| Pharm. CO Virgin Ph. Eur. | | 2 | 0.3 | min. 160 | 82 - 90 | | 9.5 - 11 |
| Pharm. Refined CO DAB / Ph. Eur. | 1 | max. 0.8 | 0.2 | min. 160 | 82 - 90 | | 9.5 - 11 |

ALBERDINGK® CASTOR OIL DERIVATIVES

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|--|--------|-------------|--|------------|-----------|---------|----------|
| Blown CO 17 ... 90 dPa s | 5...12 | max. 6...15 | | 130...160 | 60...85 | | 17...90 |
| Dehydrated CO (DCO) | 5 | max. 4 | | max. 25 | min. 145 | | max. 3 |
| Dehydrated CO 50 (DCO 50) | 5 | max. 4 | | max. 50 | min. 145 | | max. 3.5 |
| CO PD | 6 | max. 5 | | 120 | | | max. 10 |
| Dehydrated CO Stand Oil 8/45 dPa s | 5 | max. 7.5 | | max. 25/15 | | | 8/45 |
| Dehydrated CO Fatty Acid Highly Conjugated | 1 | 197 - 203 | | max. 10 | 128 - 140 | | |
| HCO 52, Flakes and Powder | 3 | max. 3 | | min. 155 | max. 3 | min. 85 | |
| HCO Flakes 81 | 1 | max. 2 | | min. 157 | max. 2.5 | min. 85 | |
| 12-HSA 52, Flakes and Powder | 5 | min. 175 | | min. 150 | max. 5 | min. 72 | |
| 12-HSA Flakes 81 | 3 | min. 175 | | min. 157 | max. 3 | min. 73 | |

ALBERDINGK® SPECIALTY PRODUCTS

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|---|---|--------|--|----------|----------|-----------|-----|
| Albolith MS C 350 Molecular Sieve Paste | | | | | | | 120 |
| Albothix 82-32 Thixotropic Agent | 2 | max. 2 | | min. 155 | max. 2.5 | min. 85 | |
| Albothix 85-32 Thixotropic Agent | 8 | max. 6 | | min. 155 | | 136 - 140 | |

**ALBERDINGK® LINSEED OIL**

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|------------------------------|---|
| Crude LO | Low PAT value |
| Refined LO | Low acid, colour and odour quality for technical applications |
| Refined LO Winterized | Like refined LO but stays clear at lower temperatures |
| Pale Refined LO | Extra bleached for low colour applications |

ALBERDINGK® LINSEED OIL DERIVATIVES

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| Double Boiled LO | Siccative added, slightly polymerized, very good drying properties |
| LO Stand Oil 0,7-1 ... 450 dPa s | Good flow, gloss, water and weather resistance, pigment wetting |
| Blown Refined LO - 3/30 dPa s | Quick drying, excellent gloss and water resistance |
| LO Reduced 30/40/60% | White spirit reduced blown LO for special applications |

ALBERDINGK® CASTOR OIL

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| CO First Special Grade / No. 1 | Standard quality for all technical applications |
| CO DIN Quality / Pale Pressed | Technical quality for lower colour systems |
| CO Low Acid 0.7 | Long pot life time in two pack PU systems |
| Albodry CO PU Quality | Low moisture, higher yield, less CO ₂ formation in PU systems |
| Albodry CO Pharma DAB Special | Low moisture and controlled acid value, high purity |
| Pharm. CO Virgin Ph. Eur. | For sensitive applications with a high demand for purity |
| Pharm. Refined CO DAB / Ph. Eur. | Highest purity and lowest colour |

ALBERDINGK® CASTOR OIL DERIVATIVES

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| Blown CO 17 ... 90 dPa s | For lubricants, plasticizer in coatings, crosslinker for PU |
| Dehydrated CO (DCO) | Non yellowing, fast drying, brings gloss, flexibility, adhesion |
| Dehydrated CO 50 (DCO 50) | Like DCO and non-migrating plasticizer for PU resins |
| CO PD | Polyol for soft and flexible PU resins |
| Dehydrated CO Stand Oil 8/45 dPa s | Like DCO, even better chemical and water resistance of the film |
| Dehydrated CO Fatty Acid Highly Conjugated | Low colour and low yellowing |
| HCO 52, Flakes and Powder | Standard quality for general technical purposes |
| HCO Flakes 81 | Low colour quality for high end applications |
| 12-HSA 52, Flakes and Powder | Standard quality for general technical purposes |
| 12-HSA Flakes 81 | Low colour quality for high end applications |

ALBERDINGK® SPECIALTY PRODUCTS

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| Albolith MS C 350 Molecular Sieve Paste | Low viscous, not sedimenting, pot life stabile desiccant |
| Albothix 82-32 Thixotropic Agent | HCO based thixotropic thickener |
| Albothix 85-32 Thixotropic Agent | Modified HCO thixotropic thickener, better temperature stability |

Linseed Oil and Derivatives

Main applications:

- printing inks
- alkyd resins
- paints and varnishes
- wood care products (teak oil)
- pigment pastes

Castor Oil and Derivatives

Main applications:

- polyol for polyurethane systems
(1- and 2-components)
- coatings
- foams, casting resins
- adhesives
- thixotropic agents
- lubricants
- tensides
- pharmaceuticals and cosmetics

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