

Lubricant Auxiliaries

Alongside the extensive product line of low, medium and high molecular weight PIBs, KEMAT offers a selection of complementary product series for use in lubricant oils and greases.

Polytac

Proprietary additive blends of high molecular weight polyisobutenes and base oils.

Consult our Technical Data Sheets (on our website) to learn more about the product features and benefits, typical applications and technical performance:

- Polytac – Standard grade
- Polytac C – Grade approved by NSF for incidental food contact

Castor Oil

Typical Properties

Castor Oil Grade	Physical Form	Colour Gardner	Hydroxyl Value (*)	Saponification Value (*)	Acid Value (*)	Iodine Value (**)	Moisture %	Free Fatty Acid %
Refined PH Eur	Viscous Liquid	Max 2	Min 160	176 – 186	Max 0,8	82 – 90	Max 0,30	Max 0,4
First Special Grade (FSG)	Viscous Liquid	Max 4	Min 160	176 – 187	Max 2,0	82 – 90	Max 0,25	Max 1,0
Hydrogenated (HCO)	Flakes or Powder	Max 3	155 – 165	180 – 190	Max 5,0	Max 5	N/A	N/A

Linseed Oil

Typical Properties

Linseed Oil Grade	Physical Form	Colour Gardner	Viscosity at 20°C dPa.s	Density at 20°C g/ml	Acid Value (*)	Iodine Value (**)	Solid Content %	Biobased Content %
Processed 30	Viscous Liquid	Max 6	30	0,96	Max 9	120 – 140	100	100
Standard 60	Viscous Liquid	Max 7	60	0,96	Max 11	115 – 135	100	100
Standard 90	Viscous Liquid	Max 7	90	0,96	Max 10	110 – 130	100	100
Standard 120	Viscous Liquid	Max 7	120	0,96	Max 12	108 – 128	100	100
Standard 300	Viscous Liquid	Max 8	300	0,97	Max 13	105 – 125	100	100

(*) : mg KOH / g (**) : g I₂ / 100 g

12-Hydroxystearic Acid (12-HSA)

Typical Properties

12-HSA Grade	Physical Form	Colour Gardner	Hydroxyl Value (*)	Saponification Value (*)	Acid Value (*)	Iodine Value (**)	Melting Point °C
12-HSA	Flakes or Powder	Max 6	Min 150	175 – 190	Min 175	Max 5	Min 70

Molybdenum Disulphide (MoS₂)

Typical Properties

MoS ₂ Grade	Median Particle Size µm	Particle Size Range µm	Acid Insolubles wt %	Molybdenum Trioxide wt %	Acid Value (***)	Oil wt %	Carbon wt %	Water wt %
Technical	30	1 – 100	Max 0,5	Max 0,05	Max 0,05	Max 0,05	Max 1,5	Max 0,02
Technical Fine	6	0,5 – 20	Max 0,5	Max 0,05	Max 0,25	Max 0,40	Max 1,5	Max 0,05
Super Fine	1,5	0,5 – 8	Max 0,5	Max 0,15		Max 0,40	Max 1,5	Max 0,15

(***) : g I₂ / 100 g at time of production