

PRODUCT DATA SHEET

Product: Kester Wax K82D

Product number(s): E00031

Description: Kester Wax K82D is the dimer acid ester of very long chain synthetic fatty alcohols. This specialty synthetic wax contains diesters with carbon chain lengths varying from ca C76 to over C116. Remarkable is the combination of a high melting point with plasticity above ca. 55 °C, although relatively hard at room temperature. This wax shows no stickiness or tackiness even when it becomes plastic. Kester Wax K82D has very strong gelling properties for many cosmetic oils like all triglycerides (natural and synthetic), Pentaerythrityl Tetraisostearate, Diisostearyl Malate, Tridecyl Trimellitate, Cetyl Dimethicone, Lanolin Oil, Ethylhexyl Hydroxystearate, Polybutenes, Hydrogenated Polydecenes, Jojoba Oil, Octyldodecanol, Diisopropyl Adipate. At surprisingly low concentrations it gives beautiful, glossy, silky, slightly transparent gels. Also silicone oils like phenylmethicones and cyclomethicones can be gelled with Kester Wax K82D. Kester K82D can replace mineral waxes in many applications. The main application for Kester wax K82D is in anhydrous formulations.

Applications: Cosmetics: Lip Balms, Lipsticks, Antiperspirants. Oil Gels, Mineral Wax Replacement

Specifications		Method
Congealing point (°C)	78,0 - 84,0	ASTM D938
Acid value (mg KOH/g)	≤ 5,0	Ph. Eur. Beeswax
Ester value (mg KOH/g)	62 - 77	Ph. Eur. Beeswax
Saponification value (mg KOH/g)	64 - 79	Ph. Eur. Beeswax

Typical values	
Odour	Typical
Colour	Light yellow
Form	Pastilles

Other information	
CTFA/INCI-Name	Di-C20-40 Alkyl Dimer Dilinoleate
EU-Name	Di-C20-40 Alkyl Dimer Dilinoleate
Retest date	3 years after production date

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