



Technical Data Sheet

Description

Sasol North America's ALFOL® Alcohols are blends of high purity petrochemical-based linear primary alcohols with even-numbered carbon chain lengths. ALFOL® 20+ and ALFOL® 22+ Alcohols are waxy solids with off-white coloring and a slight sweet odor.

ALFOL® Alcohols are physically and chemically equivalent to corresponding oleochemical-based alcohols derived from such sources as coconut oil and palm kernel oil.

Applications

ALFOL® 20+ and ALFOL® 22+ Alcohols are used in the following applications:

- Lubricants for plastics, textiles and metals
- Ethoxylation and sulfation to prepare emulsifiers and biodegradable surfactants
- Defoamers for paper, latex and other aqueous slurries (FDA sanctioned CFR 21, § 176.210)
- Esters for plastic lubricants and lubricant additives
- Synthetic waxes and binders
- Water evaporation control
- Chemical intermediate for other derivatives

Properties

Typical physical properties are listed in the table to the right. Actual properties will vary from lot to lot.

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Typical Properties	ALFOL® 20+	ALFOL® 22+
Average molecular wt.	323	340
Total Alcohol, wt. %	> 80	> 70
Homolog Distribution, wt. %		
C18OH & Lower	< 5	< 5
C20OH	30 – 60	15 – 35
C22OH	15 – 35	25 – 45
C24OH	10 – 20	10 – 25
C26OH & Higher	< 20	< 25
Water, wt. %	< 0.1	< 0.1
Hydroxyl number, mg KOH/g	120 – 170	120 – 140
Specific gravity, g/cc @ 75°C	0.815	0.812
Flash point, °C, (°F)	199 (390)	193 (380)
Melting Point, °C, (°F)	45 – 54 (113 – 139)	59 (138 – 139)
Boiling Point, °C, (°F)	343 (650)	372 (702)
Viscosity cSt @ 99°C	5.3	5.8
Appearance, room temperature	Off-white solid	Off-white solid
Vapor Pressure, mmHg @ 21 °C	0.13 mmHg	< 0.1 mmHg
Vapor Density, Air = 1	10.3 – 14.1	14 – 16
Solubility (water)	Nil.	Nil.

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For detailed safety and handling information regarding these products, please refer to the respective Sasol North America Material Safety Data Sheet.