



# Product Data Sheet

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## SYLFAT™ FA1 Tall Oil Fatty Acid

SYLFAT™ FA1, light in color and low in rosin, is a consistent, low-cost source of liquid fatty acid. The utility of tall oil fatty acid can be found in the long carbon chain (C18), acid function of the carboxyl group (-COOH) or unsaturation of the double bonds. SYLFAT™ FA1 is particularly good in the manufacture of soaps, amines, amides and imidazolines. It is also good in the production of coatings, where color is not critical. Tall oil fatty acids impart slower air drying than soybean fatty acids, but slightly better color retention. The rosin acid in SYLFAT™ FA1 improves the hardness, drying time, gloss and water resistance of alkyd resin. For these reasons, SYLFAT™ FA1 has found use in the areas of: metalworking fluids, fuel additives, lubricant additives, alkyd resin, oil-field chemicals, and asphalt emulsifiers, to mention a few.

PRODUCT PROPERTIES	Specifications	Typical Analysis
Color, Gardner, 1963	7 max.	5+
Acid Value	190 min.	193
Saponification Value		197
Iodine Value (Wijs)		131
Titer, °C (°F)		8 (46)
Composition:		
Moisture, %		<0.1
Ash, %		<0.01
Rosin Acids, %	5.0 max.	4.3
Unsaponifiables, %		3.4
Fatty Acids Total, %		93.2
Fatty Acid Composition:		
Linoleic, Nonconjugated, %		34
Linoleic, Conjugated, %		9
Oleic, %		44
Saturated, %		5
Other, Fatty Acids, %		8
Specific Gravity, 25°/25°C		0.906
Weight Per Gallon, 25°C, lb		7.53
Viscosity, cP, 25°C		20
Flash Point, Open Cup, °C (°F)		204 (400)

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