

# Product Datasheet

## FOR2X

**FOR2X** is characterized as a Tall Oil Fatty Acid (TOFA) with high fatty acid content and low content of rosin acids and unsaponifiables. **FOR2X** possesses improved cold performance, light colour with excellent colour stability, and good air-drying properties. The superior chemical reactivity of **FOR2X** is due to its long carbon chain (C18), the acid function of carboxyl group (-COOH) and the unsaturation of the double bonds.

### Specification of FOR2X

Analysis	Value	Method
Acid value, mg(KOH)/1g	min. 193	SCAN-T 11
Cloud point, °C	max. -3	ASTM D 2500
Colour (Gardner)	max. 5	ASTM D 6166
Free rosin acids, %	max. 2.1	SCAN-T 14
Unsaponifiables, %	max. 2	SCAN-T 13

### Typical analyses of FOR2X

Analysis	Value	Method
Acid value, mg(KOH)/1g	196	SCAN-T 11
Cloud point, °C	-8	ASTM D 2500
Colour (Gardner)	3.6	ASTM D 6166
Density at 15 °C, kg/m <sup>3</sup>	908	SCAN-T 2
Flash point (closed cup), °C	205	ASTM D 93
Free fatty acids, %	97	Internal method
Free rosin acids, %	1.8	SCAN-T 14
Iodine value (Wijs), cg(I <sub>2</sub> )/g	155	ASTM D 5768
Pour point, °C	-15	SCAN-T 5
Saponification number	198	SCAN-T 12
Unsaponifiables, %	1.7	SCAN-T 13
Viscosity at 40 °C, mPas	16	ASTM D 2196

### Product handling

**FOR2X** should be delivered at around 20 °C, and the recommended minimum storage temperature is 10 °C. If **FOR2X** is subjected to low temperatures during storage or transportation it may become cloudy or show some precipitation. This is a normal characteristic and not a defect. If affected, the material should gently be heated to max. 30 °C and circulated or agitated to restore the clear and bright condition.

### Delivery form

Liquid in ISO tank container, road tanker, flexitank or IBC container.

### Product identifier

**EINECS number** 263-107-3  
**CAS number** 61790-12-3  
**CN code** 38231300



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