

Tall Oil 1 (tall oil pitch based bio fuel) Product Datasheet

Item number: 10-001

Description

Pitch fuel made from tall oil pitch and other monomer tall oil distillates

General Information, storing and delivery form

General information:

The liquid bio fuel Tall Oil 1 was selected as a case product for the assessment. Tall Oil 1 replaces heavy fuel oil in customers' processes. Replacement of heavy fuel oil by Tall Oil 1 in customer processes enables annual emission savings which are 125 fold compared with emissions due to production of Tall Oil 1 from tall oil.

Beside the usage as bio fuel Tall Oil 1 is used as a raw material for the chemical and the construction industry.

Storing:

We recommend storing in tanks with a temperature of min. 60 °C.

Delivery form:

Deliveries in bulk form by truck and ocean vessel. The delivery temperature usually is around 70 °C.

Specification of Tall Oil 1

Analysis	Value	Method
Viscosity at 50 °C, mPa.s	max. 600	ASTM D2196-9 9
Acid value, mg KOH/g	max. 100	ASTM D 465-01
Ash, %	max. 0.5	SCAN T 4:66
Sulphur, %	max. 0.4	SCAN D 4239-00
Moisture, %	max. 0.5	ASTM D 1364-95

Typical analyses of Tall Oil 1

Analysis	Typical Value	Method
Viscosity at 50 °C, mPa.s	470	ASTM D2196-9 9
Acid value, mg KOH/g	60	ASTM D 465-01
Ash, %	0.3	SCAN T 4:66
Sulphur, %	0.3	SCAN D 4239-00
Moisture, %	0.1	ASTM D 1364-95
Nitrogen, %	0.05	According to LECO
Flash Point, °C	150	ASTM 93-80
Pour Point, °C	15	ASTM 93-80
Density at 50 °C, kg / m ³	950	SCAN D 2500-99
Heat Value, MJ / kg (effective)	38	ASTM D 4809-95