

Botnia Nordic CTO RMA

Crude Tall Oil

Date: 30/05/2018

Raw material

Pine (pinus silvestris)	55-75 %
Spruce (picea abies)	25-45 %

Typical product characteristics

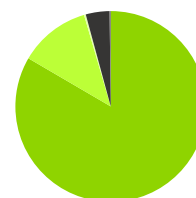
Property	Value	Method
Acid number	Typical 159 mg KOH/l (variance 154 -163)	SCAN-T 11:72
Resin acid	Typical 33 % (variance 31-34)	SCAN-T 14:78
Water content	Typical 1.0 % (variance 0.7-1.4)	ASTM D 890-98
Soap number	Typical 0.2 mg KOH/l (variance 0 -0.5)	PCTM 13

MILL CERTIFICATES

ISO 14001	Quality management system	✓
ISO 9001	Quality system	✓
PEFC™ COC	Chain of Custody, controlled sources	✓
FSC® COC/CW	Chain of Custody, controlled wood	✓
ISO 50001	Energy management system	✓
OHSAS 18001	Health and safety management system	✓
ISO 22000	Food safety management system	✓

ORIGIN OF RAW MATERIAL

Finland	83 %
Estonia	12 %
Russia	0.3 %
Latvia	4 %
Sweden	0.2 %
PEFC	77 %
FSC	12.5 %



■ Finland
■ Estonia
■ Russia
■ Latvia
■ Sweden



Metsä Fibre Oy, Rauma mill
Address: P.O.Box 165 FI-26101 Rauma, Finland