

Metsä Pine JNO

Datasheet updated: June 2024



Promoting
Sustainable Forest
Management
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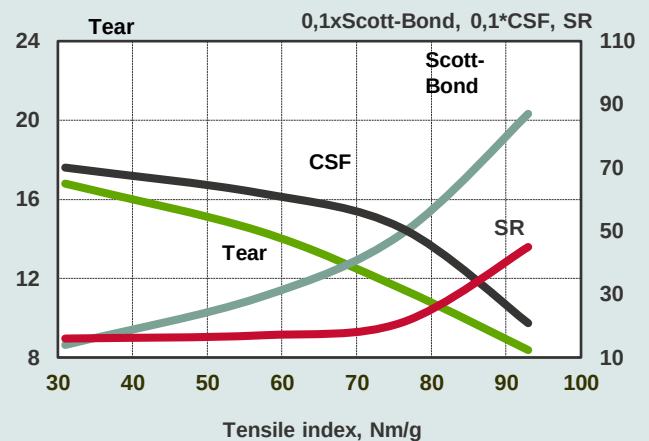
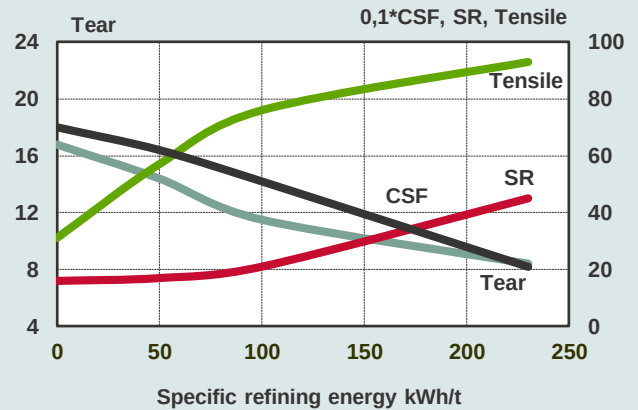


The mark of
responsible forestry

Metsä Pine JNO Bleached Softwood Kraft Pulp (NBSK) is produced at our pulp mill in Joutseno. It is made from high-quality Nordic pine (*Pinus sylvestris*) and spruce (*Picea abies*). The wood we use is sustainably sourced and traceable.

Raw material	
Pine (<i>pinus sylvestris</i>)	55–100%
Spruce (<i>picea abies</i>)	0–45%

Pulp characteristics		
Brightness, ISO	PulpExpertDCD	Target 88,5%
Fibre length, mm	ValmetMAP, ISO 16065-2	Typical value 2.15 mm
Coarseness	Valmet FS-5	0.145–0.175 mg/m
Ash content	ISO 1762:2001	0–0.4%
Viscosity	ISO 5351	min. 750 ml/g
pH	ISO 6588	5.0–7.0



Specific refining energy kWh/t	CSF ml	Schopper-Riegler - number	Tensile index Nm/g	Tensile Stiffness Index kNm/g	Tear index mNm ² /g	Scott-Bond J/m ²	Density kg/m ³	Opacity %	Air resistance (Gurley) s
0	697	16	31	4,2	16,8	143	589	67,8	1,2
50	616	17	57	6,1	14,4	288	650	64,5	4,1
100	515	21	76	7,5	11,5	492	723	59,5	16
230	209	45	93	8,7	8,4	865	801	53,9	777
56	600	17	59	6,2	13,5	318	667	63,0	4,8
107	500	22	78	7,6	11,2	520	731	59,0	19
88	539	20	72	7,2	12,0	443	709	60,4	11
128	456	25	83	8,0	10,5	603	753	57,6	34
84	547	20	70	7,1	12,2	427	704	60,7	10
164	374	31	90	8,5	9,4	728	782	55,5	98

Mean (indicative) values from pulp testing with Lab-Finer using standard water.
Specific Edge Load 2,5 Ws/m, ISO testing methods, testing climate 50% RH, 23°C. Handsheets 60 g/m².

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Sheets

Size	84 x 84 cm
Grammage	900 – 1100 g/m ²

Bales

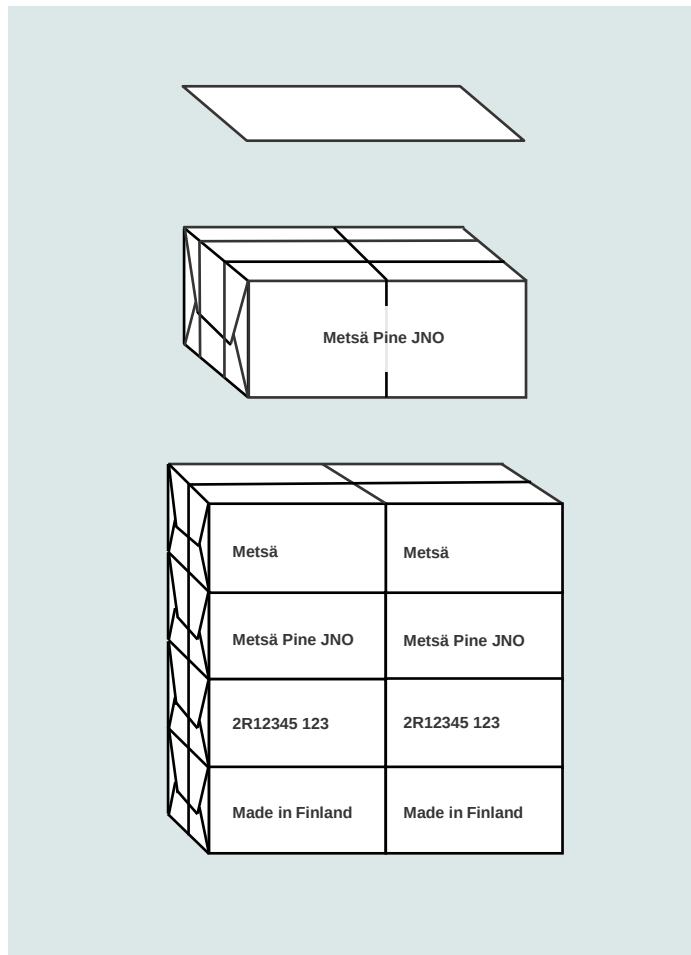
Size	86 x 86 x 43 cm
Gross weight	250 kg
Wrappers	Pulp sheet
Wires	3 galvanized wires, diameters 2.3 mm
Markings	Black ink-jet printing, water soluble ink Brand name and bale number on outside of the bale

Units

Size	86 x 172 x 172 cm
Gross weight	2,000 kg (8 x 250 kg)
Wires	8 galvanized wires, diameter 3.0 mm
Identification	RFID tag 1/ton

Certificates

ISO 14001	Environmental management system
ISO 9001	Quality management system
PEFC COC	Chain of Custody, controlled sources License PEFC/02-33-21
FSC® COC/CW	Chain of Custody, controlled wood License FSC-C002102
ISO 50001	Energy management system
ISO 45001	Health and safety management system
ISO 22000	Food safety management system



End uses

Speciality papers
Wood free papers
Tissue papers