

# Metsä

# Pine JNO

Datasheet Updated: 13/06/2023

## Raw material

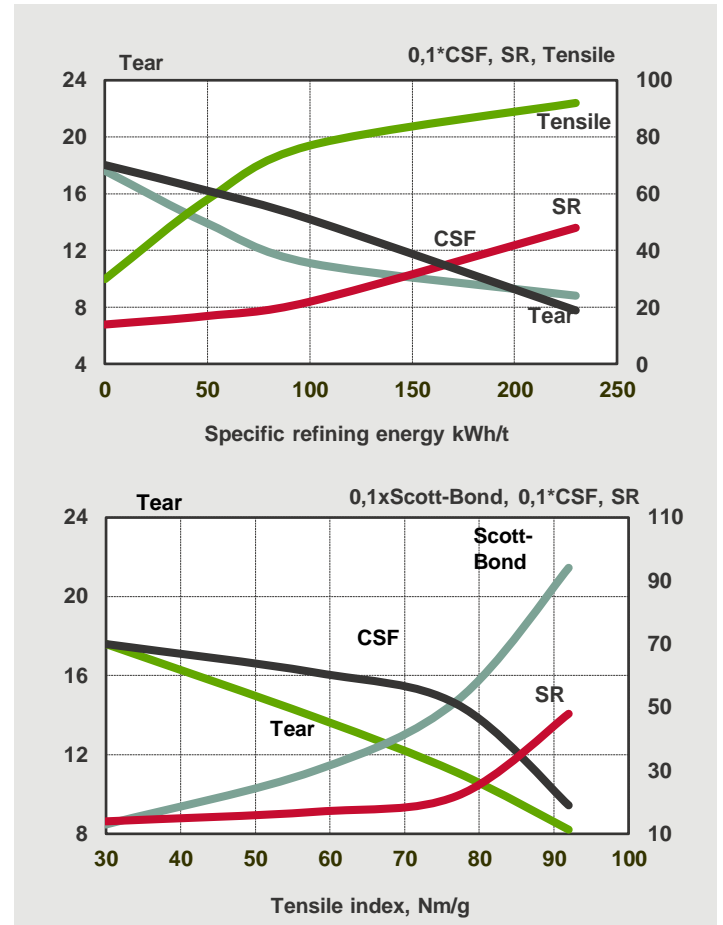
<b>Pine</b> (pinus sylvestris) 55–100%	<b>Spruce</b> (picea abies) 0–45%
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## Pulp characteristics

<b>Brightness, ISO</b> (PulpExpertDCD) Target 88,5%	<b>Fibre length, mm</b> (ValmetMAP, ISO 16065-2) Typical value 2.15 mm
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<b>Coarseness</b> (Valmet FS-5) 0.145–0.175 mg/m	<b>Ash content</b> (ISO 1762:2001) 0–0.4%
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<b>Viscosity</b> (ISO 5351) min. 750 ml/g	<b>pH</b> (ISO 6588) 5.0–7.0
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Specific refining energy kWh/t	CSF ml	Schopper-Riegler - number	Tensile index Nm/g	Tensile Stiffness Index kNm/g	Tear index mNm <sup>2</sup> /g	Scott-Bond J/m <sup>2</sup>	Density kg/m <sup>3</sup>	Opacity %	Air resistance (Gurley) s
0	699	14	30	4,2	17,6	135	586	70,6	1,4
50	607	17	58	6,2	13,9	303	660	66,3	5,6
100	505	22	77	7,7	11,1	520	728	62,2	24
230	193	48	92	8,8	8,2	938	810	60,0	1754
53	600	17	59	6,3	13,7	316	664	66,0	6,0
102	500	22	78	7,7	11,0	529	730	62,0	26
85	537	20	72	7,3	11,8	454	708	63,3	15
122	457	25	83	8,1	10,2	616	753	60,6	47
79	549	19	70	7,2	12,2	427	700	63,8	13
156	379	31	90	8,6	9,1	748	785	58,6	140

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/m<sup>2</sup>.

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## End uses

Speciality papers

Wood free papers

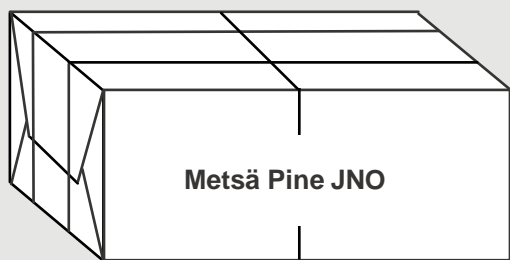
Tissue papers

## Sheets

Size 84 x 84 cm

Grammage 900 – 1100 g/m<sup>2</sup>

## Bales



Size 86 x 86 x 43 cm

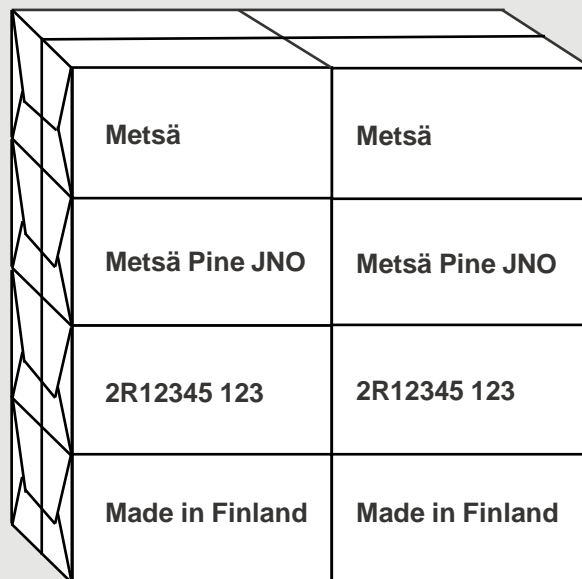
Gross weight 250 kg

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 both sides 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