

# TECHNICAL DATA SHEET

## UPM Conifer Thin

ECF Bleached Northern Softwood Kraft Pulp  
Pulp mill: UPM Pietarsaari

Date of issue: 3.12.2021

### PULP CHARACTERISTICS

	Typical value	Spec
Brightness, ISO % ISO 2470-1	<b>89</b>	≥ 88
Impurities, mm <sup>2</sup> /kg ISO 5350-2	<b>2</b>	
Extractives, % ISO 14453	<b>0,05</b>	≤ 0,15
Ash content, % ISO 1762	<b>0,2</b>	≤ 0,3
pH ISO 6588-2	<b>5,6</b>	5,0-7,0

### FIBRE CHARACTERISTICS

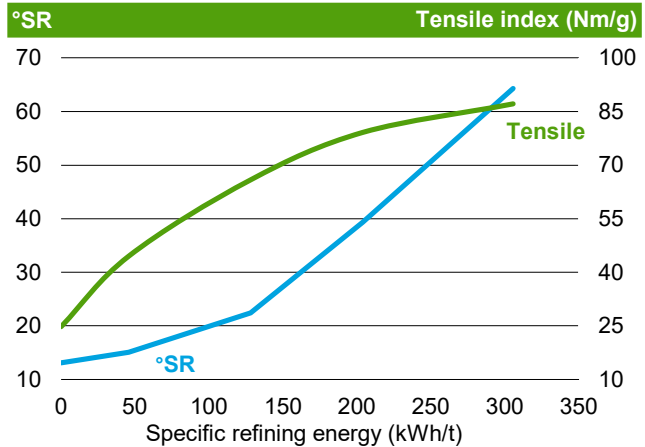
	Typical value
Fibre length, mm Metso FS5	<b>1,92</b>
Coarseness, mg/m Metso FS5	<b>0,15</b>

### RAW MATERIAL

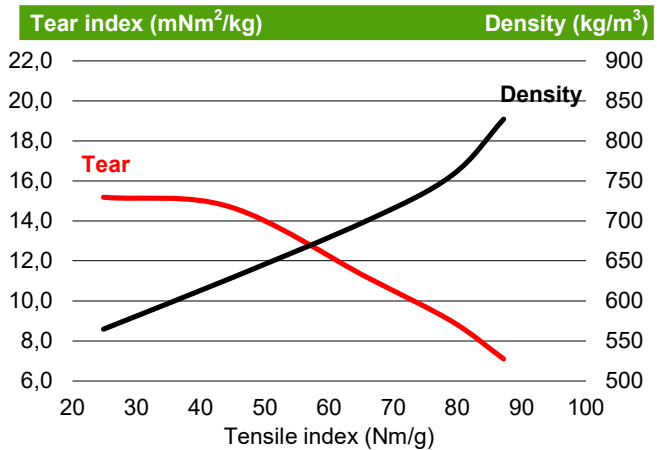
#### Softwood

Pine (Pinus Silvestris), Spruce (Picea Abies)

### REFINABILITY



### TEAR AND DENSITY AT TENSILE



Specific Refining Energy	CSF	SR number	Tensile index	Stiffness index	Tear index	Scott Bond	Density	Opacity	Air res.
kWh/t	ml		Nm/g	kNm/g	mNm <sup>2</sup> /g	J/m <sup>2</sup>	kg/m <sup>3</sup>	%	s
0	698	13	25	3,8	15,2	114	565	73,6	1,4
46	660	15	45	5,7	14,7	224	628	69,7	1,7
128	503	22	66	7,2	11,2	480	700	65,7	8
204	307	39	79	8,2	9,0	898	757	62,7	122
306	119	64	87	8,8	7,1	1728	827	58,1	3463
61	630	16	<b>50</b>	6,1	13,8	275	653	68,5	3,1
144	459	26	<b>70</b>	7,5	10,5	595	717	64,7	34
340	90	76	<b>90</b>	9,1	6,5	2100	850	58,0	4500
105	555	<b>20</b>	58	6,6	12,4	410	678	67,0	5,0
140	470	<b>25</b>	66	7,3	10,9	550	710	65,3	13
165	420	<b>30</b>	73	7,7	10,2	680	726	64,3	35

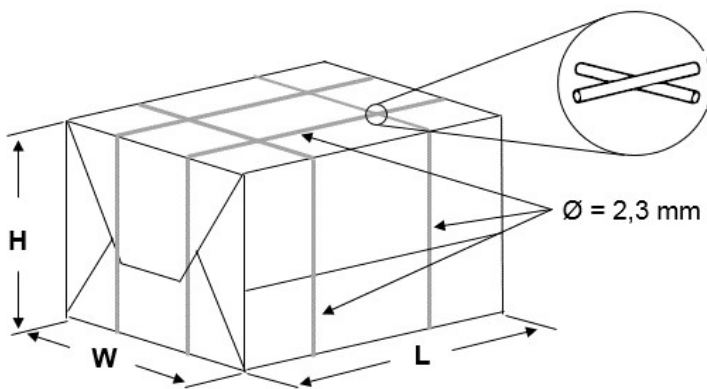
Typical values are averages from all mill quality control samples during H2 2020 - H1 2021. They are given in good faith to represent mill performance and do not constitute contractual undertaking. Values in the table are mean (indicative) values from pulp testing with Voith-Sulzer refining, using standard water. Specific Edge Load 2,5 J/m, ISO testing methods (H 50%, 23 °C, 60 gr/m<sup>2</sup> sheets).

## UPM Conifer Thin

### Bale marking

	UPM Conifer Thin	NBSK	
	8 P	54504 - 001	FIN
	Mill No	Product	Lot No

### Standard bale



### Sheets

<b>Size:</b>	84 x 73 cm
<b>Grammage:</b>	850 g/m <sup>2</sup>

### Standard bale

<b>Size:</b>	L = 88 cm
	W = 76 cm
	H = 40 cm

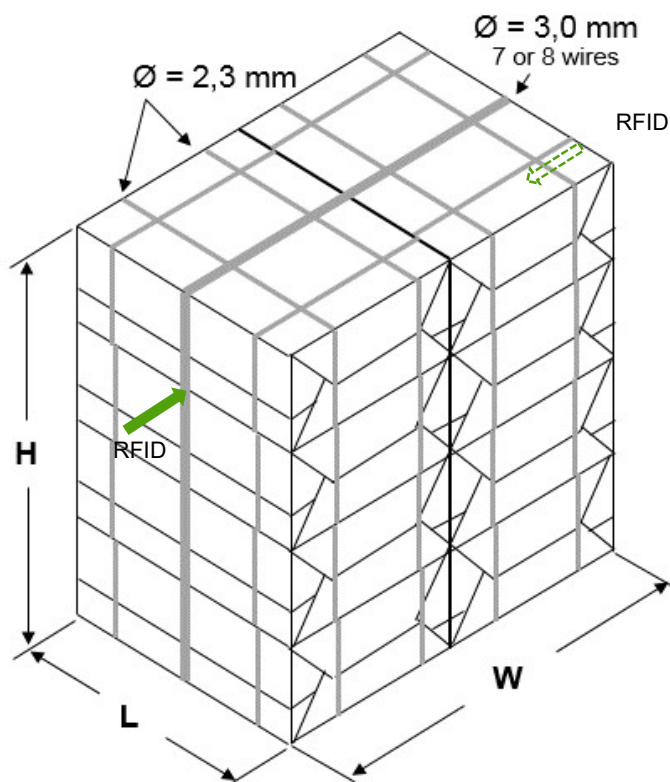
**Weight:** 250 kg

**Wrapping:** Pulp sheets (unwrapped on demand)

**Markings:** Blue watersoluble inkjet printing.  
Country, company name, product code and bale number on both sides.

**Wires:** 4 galvanized wires,  
diameter 2,3 mm.

### Standard bale unit configuration



### Standard bale unit configuration

#### Standard bale units

<b>Size:</b>	L = 88 cm
	W = 152 cm
	H = 160 cm

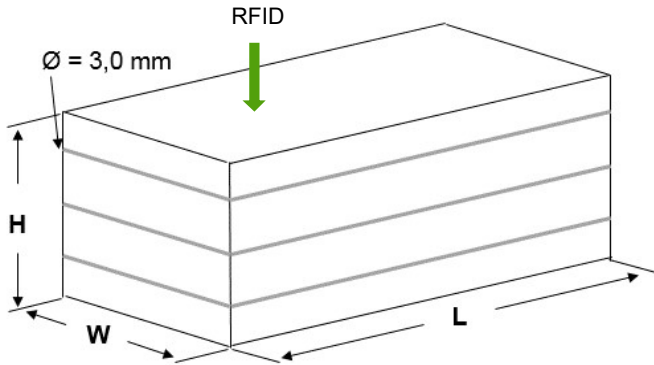
**Weight:** 2000 kg (8 x 250 kg)

**Wires:** 7 or 8 galvanized wires,  
diameter 3,0 mm

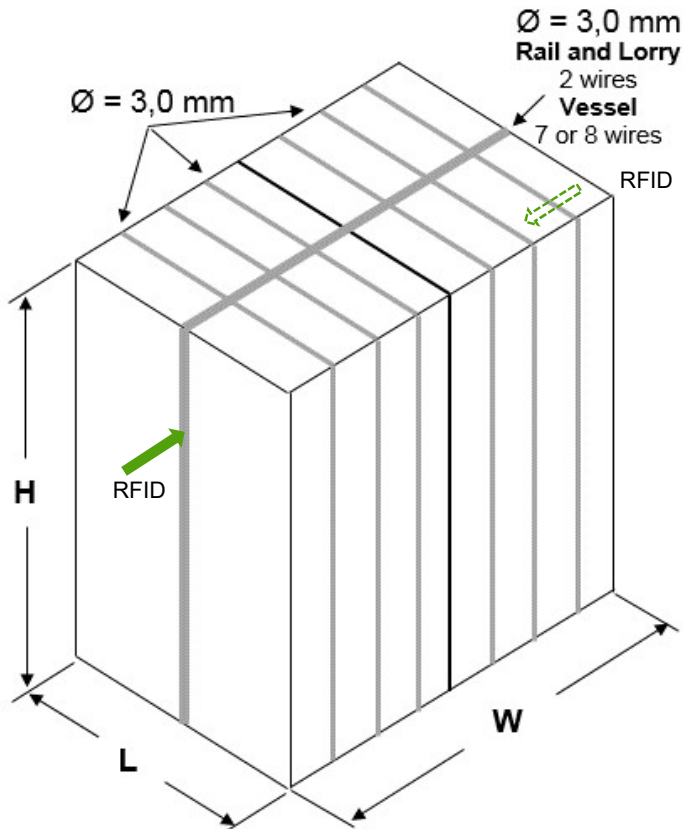
**RFID:** 1 tag per ton of pulp (traceability)

## UPM Conifer Thin

### Big bale



### Big bale unit configuration



#### Sheets

**Size:** 84 x 73 cm

**Grammage:** 850 g/m<sup>2</sup>

#### Big bale

**Size:** L = 160 cm

W = 86 cm

H = 75 cm

**Weight:** 1000 kg

**Wrapping:** No wrapping

**Markings:** Blue watersoluble inkjet printing.  
Country, company name, product code and bale number on both sides.

**Wires:** 3 galvanized wires,  
diameter 3,0 mm

**RFID:** 1 tag per ton of pulp (traceability)

#### Big bale unit configuration

##### Big bale units

**Size:** L = 86 cm

W = 150 cm

H = 160 cm

**Weight:** 2000 kg (2 x 1000 kg)

**Wires:** Vessel 7 or 8 galvanized wires, Rail and Lorry 2 wires  
diameter 3,0 mm

**RFID:** 1 tag per ton of pulp (traceability)

#### UPM-Kymmene Corporation

Alvar Aallon katu 1

PO Box 380

FI-00101 Helsinki, Finland

#### Contact information:

Tom Hultholm Senior Product Manager, tel. +358 400 589 529

tom.hultholm@upm.com

www.upmpulp.com