

TECHNICAL DATA SHEET

UPM Conifer Reinforcement

ECF Bleached Northern Softwood Kraft Pulp

Pulp mill: UPM Kaukas

Date of issue: 3.12.2021

PULP CHARACTERISTICS

	Typical value	Spec
Brightness, ISO % ISO 2470-1	89	≥ 86
Impurities, mm ² /kg ISO 5350-2	5	
Extractives, % ISO 14453	0,05	≤ 0,15
Ash content, % ISO 1762	0,15	≤ 0,2
pH ISO 6588-2	5,6	5,0-7,0

FIBRE CHARACTERISTICS

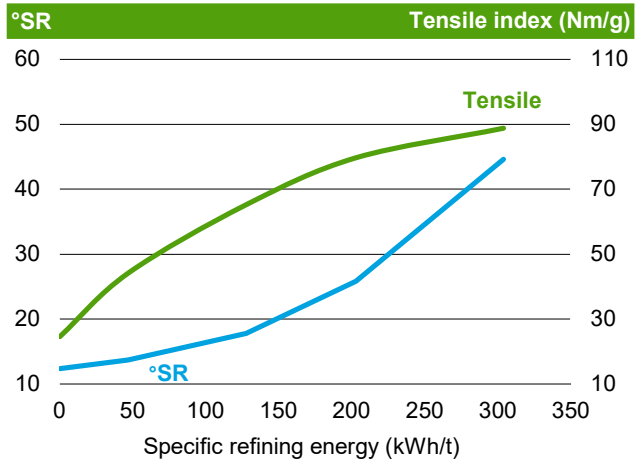
	Typical value
Fibre length, mm Metso FS5	2,30
Coarseness, mg/m Metso FS5	0,16

RAW MATERIAL

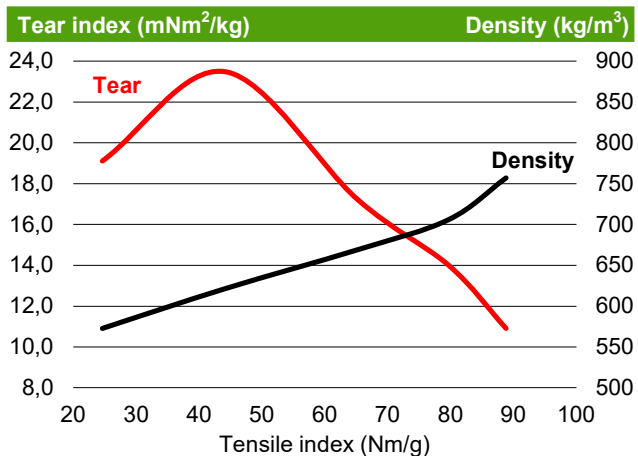
Softwood

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 ² /g	J/m ²	kg/m ³	%	s
0	719	12	25	3,7	19,1	115	573	70,7	1,3
47	696	14	44	5,5	23,5	204	621	67,6	1,3
128	595	18	65	7,1	17,2	357	669	64,2	2,9
203	441	26	80	8,1	14,0	551	706	62,5	16
304	246	45	89	8,8	10,9	868	757	60,6	401
71	666	15	50	6,0	21,5	246	635	66,7	1,8
157	536	21	70	7,4	15,8	427	683	63,8	8
305	242	43	90	8,8	10,9	870	757	60,6	403
144	555	20	68	7,4	16,2	410	679	63,9	4
196	460	25	78	8,1	14,2	530	702	62,8	15
226	395	30	82	8,3	13,2	620	718	62,3	85

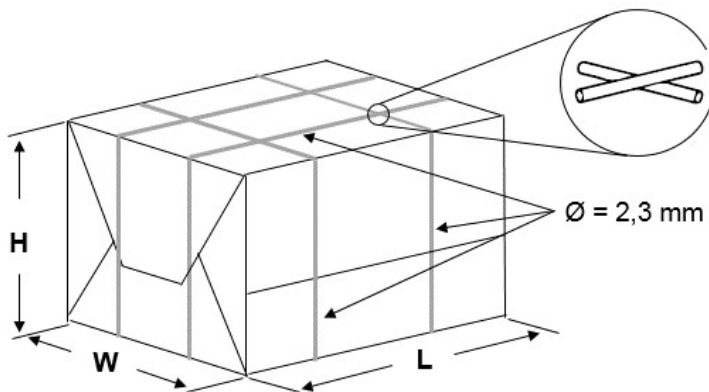
Typical values are averages from all mill quality control samples during H2 2020 - H1 2021. They are given in good faith to represent mill performance and do not constitute contractual undertaking. Values in the table are mean (indicative) values from pulp testing with Voith-Sulzer refining, using standard water. Specific Edge Load 2,5 J/m, ISO testing methods (H 50%, 23 °C, 60 gr/m² sheets).

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Bale marking

UPM Conifer Reinf		
6 L	54504 - 001	
Mill No	Product	Lot No

Standard bale



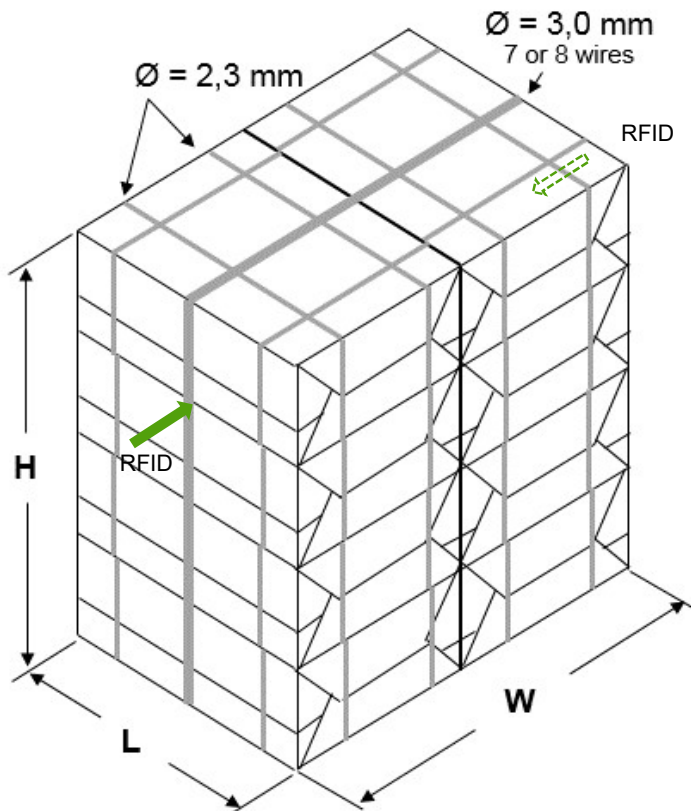
Sheets

Size:	85 x 70 cm
Grammage:	1000 g/m ²

Standard bale

Size:	L = 89 cm
	W = 73 cm
	H = 43,5 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



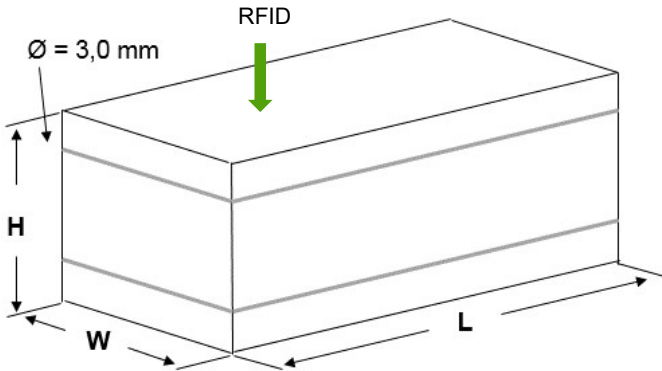
Standard bale unit configuration

Standard bale units

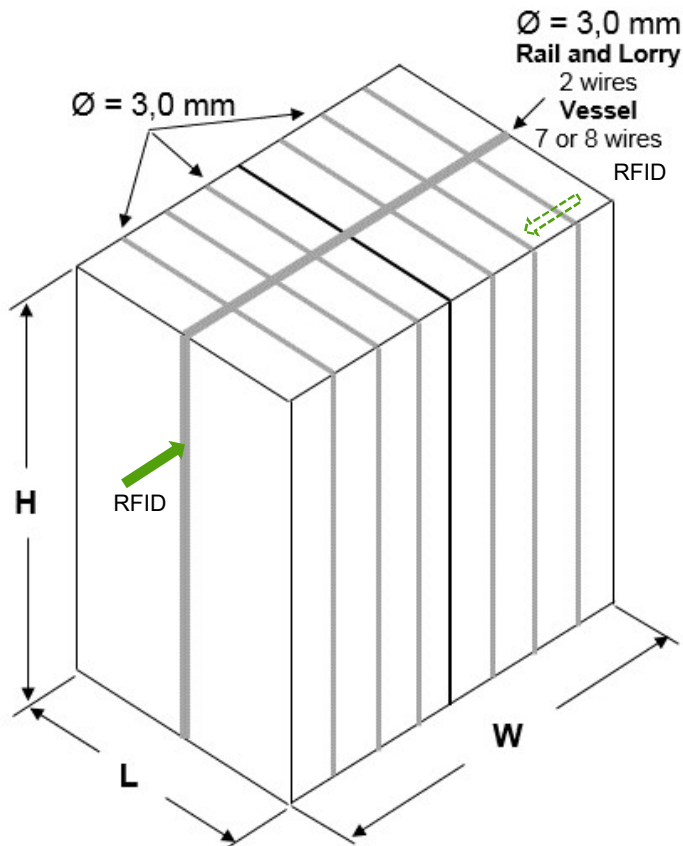
Size:	L = 89 cm
	W = 146 cm
	H = 175 cm
Weight:	2000 kg (8 x 250 kg)
Wires:	7 or 8 galvanized wires, diameter 3,0 mm
RFID:	1 tag per ton of pulp (traceability)

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Big bale



Big bale unit configuration



Sheets

Size:	85 x 70 cm
Grammage:	1000 g/m ²

Big bale

Size:	L = 175 cm
	W = 87 cm
	H = 72cm

Weight: 1000 kg

Wrapping: No wrapping

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

Wires: 2 galvanized wires, diameter 3,0 mm

RFID: 1 tag per ton of pulp (traceability)

Big bale unit configuration

Big bale units

Size:	L = 87 cm
	W = 144 cm
	H = 175cm

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)

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