

TECHNICAL DATA SHEET

UPM Conifer

ECF Bleached Northern Softwood Kraft Pulp

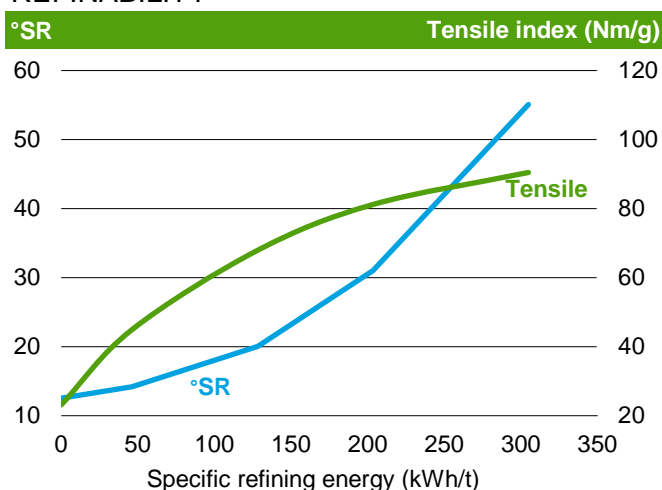
Pulp mill: UPM Pietarsaari

Date of issue: 24.11.2020

PULP CHARACTERISTICS

	Typical value	Spec
Brightness, ISO % ISO 2470-1	89	≥ 88
Impurities, mm ² /kg ISO 5350-2	2	
Extractives, % SCAN-CM 49:93	0,04	≤ 0,15
Ash content, % ISO 1762	0,1	≤ 0,2
pH 6388-2	5,7	5,0-7,0

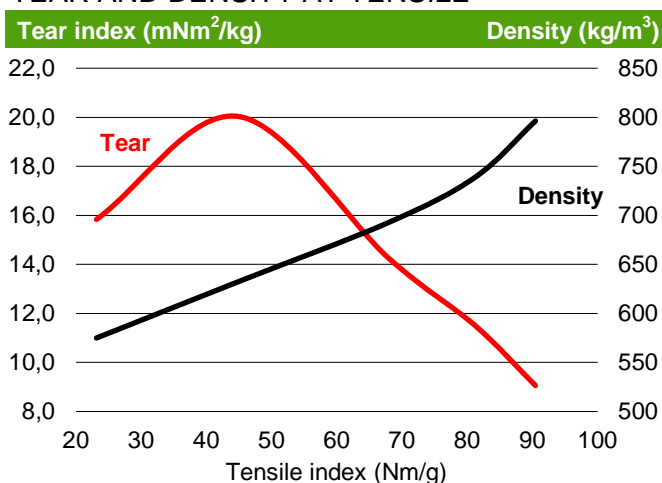
REFINABILITY



FIBRE CHARACTERISTICS

	Typical value
Fibre length, mm Metso FS5	2,12
Coarseness, mg/m Metso FS5	0,15

TEAR AND DENSITY AT TENSILE



RAW MATERIAL

Softwood

Pine (*Pinus Silvestris*), Spruce (*Picea Abies*)

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	717	13	23	3,6	15,8	150	575	71,8	1,3
46	682	14	45	5,6	20,0	238	632	67,9	1,6
128	553	20	68	7,3	14,3	486	693	64,7	6
203	374	31	81	8,2	11,5	740	739	62,4	59
305	174	55	90	9,0	9,1	1127	796	58,9	1415
57	673	15	50	6,1	21,0	259	646	67,0	1,6
136	541	21	70	7,4	13,7	508	698	64,4	6
300	184	54	90	8,9	9,2	1108	793	59,1	1347
128	554	20	68	7,3	14,3	484	692	64,7	6
162	472	25	74	7,7	13,0	601	713	63,7	30
196	390	30	80	8,2	11,8	717	734	62,6	54

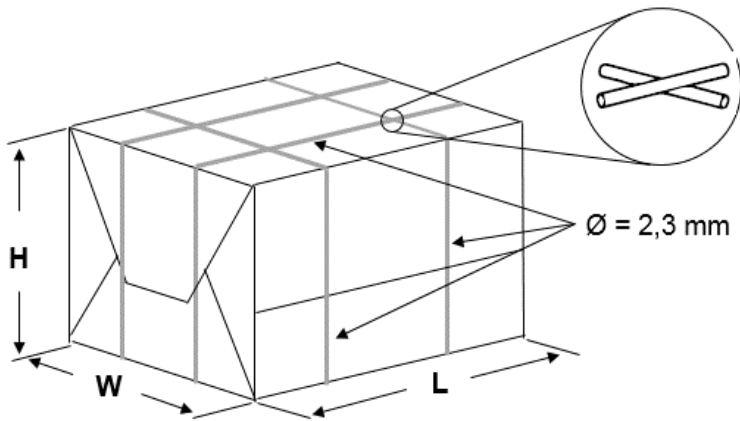
Typical values are averages from all mill quality control samples during 2019-2020. They are given in good faith to represent mill performance and do not constitute contractual undertaking. Values in the table are mean (indicative) values from pulp testing with Voith-Sulzer refining, using standard water. Specific Edge Load 2,5 J/m, ISO testing methods (H 50%, 23 °C, 60 gr/m² sheets).

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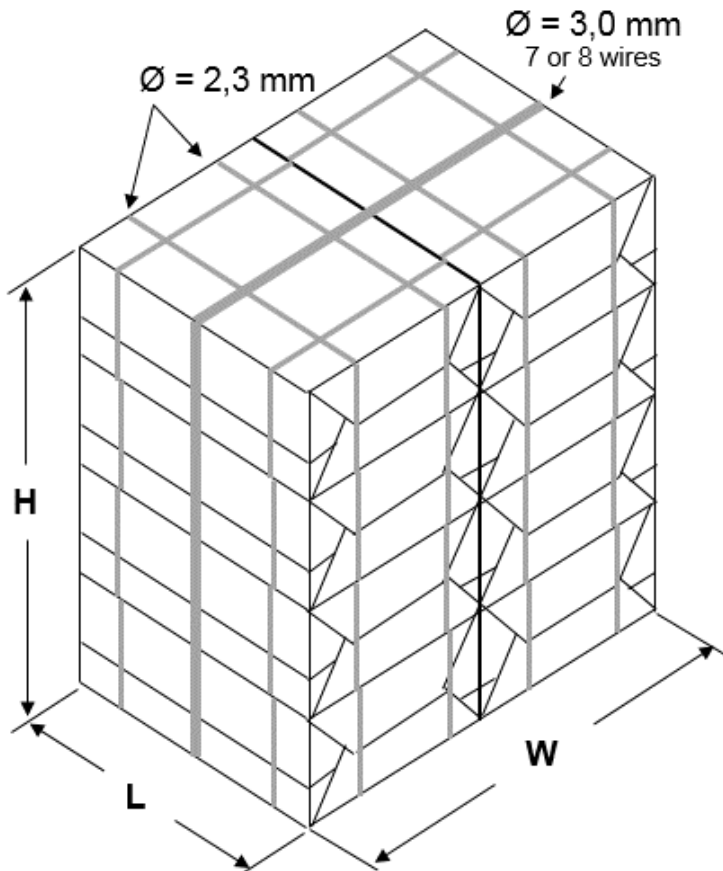
Bale marking

	UPM Conifer	NBSK	
	8 H	54504	FIN
	Mill No	Product	Lot No

Standard bale



Standard bale unit configuration



Sheets

Size: 86 x 70 cm

Grammage 1250 g/m²

Standard bale

Size: L = 90 cm

W = 73 cm

H = 42,5 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 units

Size: L = 90 cm

W = 146 cm

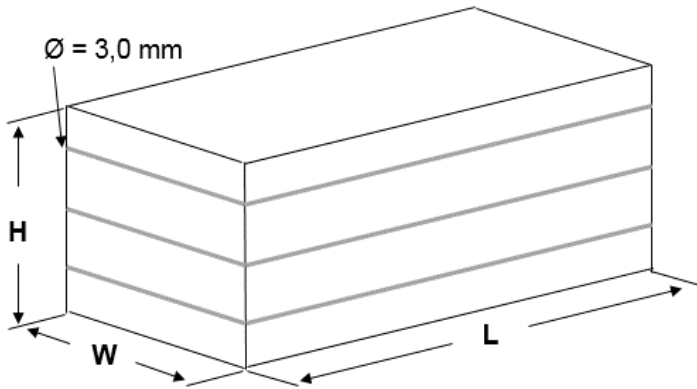
H = 170cm

Weight: 2000 kg (8 x 250 kg)

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

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Big bale



Sheets

Size: 86 x 70 cm

Grammage 1250 g/m²

Big bale

Size: L = 170 cm

W = 88 cm

H = 72cm

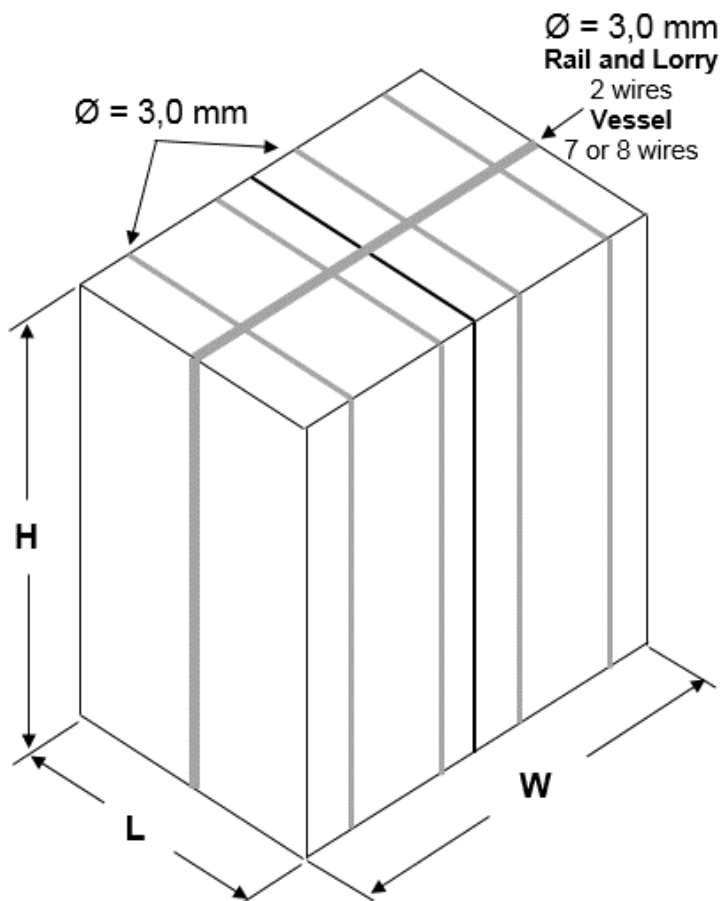
Weight: 1000 kg

Wrapping: No wrapping

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

Wires: 3 galvanized wires,
diameter 3,0 mm

Big bale unit configuration



Big bale unit configuration

Big bale units

Size: L = 88 cm

W = 144 cm

H = 170cm

Weight: 2000 kg (2 x 1000 kg)

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

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