

TECHNICAL DATA SHEET

UPM Conifer Kymi

Northern Bleached Softwood Kraft Pulp

Pulp mill: UPM Kymi

Date of issue: 1.3.2015

PULP CHARACTERISTICS

| | Typical value | Spec |
|---|---------------|---------|
| Brightness, ISO % ISO 2470-1 | 87.5 | 86-88 |
| Impurities, mm ² /kg ISO 5350 | 0.6 | |
| Extractives, % SCAN-CM 49:93 | 0.07 | ≤ 0,15 |
| Ash content, % ISO 1762 | 0.11 | ≤ 0,2 |
| pH ISO 6588 | 6.4 | 6,0-7,0 |

FIBRE CHARACTERISTICS

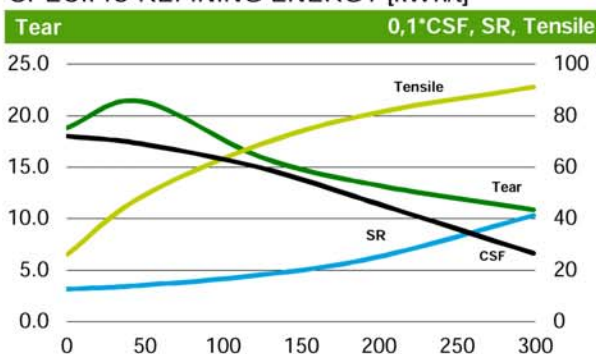
| | Typical value |
|-------------------------------------|---------------|
| Fibre length, mm L&W Fibermaster | 2.3 |
| Coarseness, mg/m Metso FS5 | 0.16 |

RAW MATERIAL

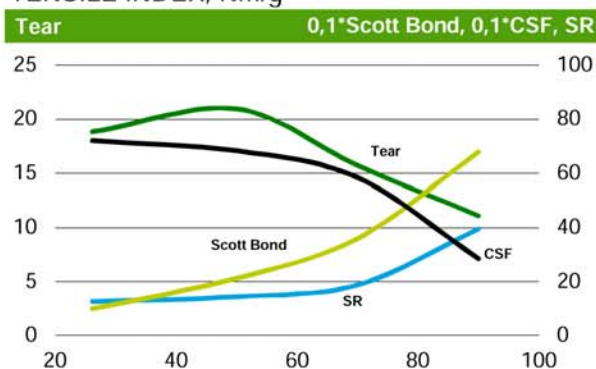
Softwood

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

SPECIFIC REFINING ENERGY [kWh/t]



TENSILE INDEX, Nm/g

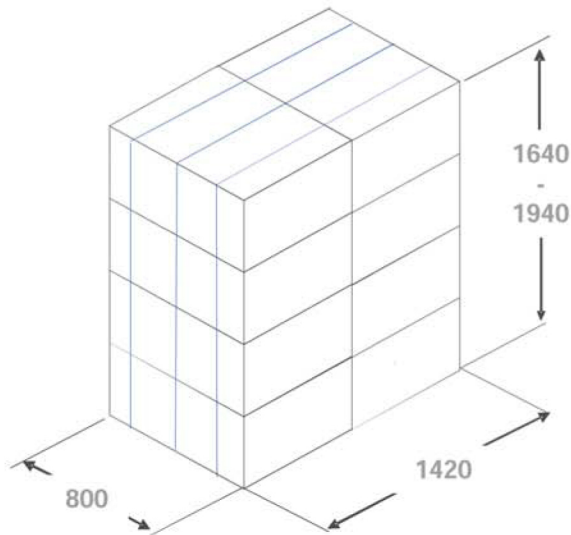


| Specific Refining Energy | CSF | SR number | Tensile index | Stiffness index | Tear index | Scott Bond | Density | Opacity | Air res. |
|--------------------------|-----|-----------|---------------|-----------------|---------------------|------------------|-------------------|---------|----------|
| kWh/t | ml | | Nm/g | Nm/g | mNm ² /g | J/m ² | kg/m ³ | % | s |
| 0 | 720 | 13 | 26 | 3.8 | 18.8 | 99 | 549 | 72.8 | 1.3 |
| 47 | 690 | 14 | 48 | 5.6 | 21.4 | 199 | 616 | 68.7 | 1.6 |
| 124 | 597 | 18 | 69 | 7.1 | 16.0 | 345 | 668 | 65.4 | 4.6 |
| 199 | 456 | 25 | 81 | 8.0 | 13.2 | 502 | 709 | 63.2 | 25.4 |
| 299 | 265 | 41 | 91 | 8.7 | 10.8 | 698 | 759 | 61.3 | 331 |
| 54 | 682 | 14 | 50 | 5.7 | 20.9 | 212 | 620 | 68.4 | 1.9 |
| 131 | 583 | 19 | 70 | 7.2 | 15.7 | 360 | 672 | 65.2 | 7 |
| 289 | 285 | 40 | 90 | 8.6 | 11.1 | 678 | 754 | 61.5 | 300 |
| 145 | 558 | 20 | 72 | 7.3 | 15.2 | 389 | 679 | 64.8 | 10.4 |
| 199 | 457 | 25 | 81 | 7.9 | 13.2 | 501 | 708 | 63.2 | 24 |
| 230 | 398 | 30 | 84 | 8.2 | 12.5 | 562 | 724 | 62.6 | 119 |
| 176 | 500 | 23 | 77 | 7.7 | 14.1 | 453 | 696 | 63.9 | 19 |
| 229 | 400 | 30 | 84 | 8.2 | 12.5 | 560 | 723 | 62.7 | 115 |
| 280 | 300 | 38 | 89 | 8.6 | 11.3 | 662 | 750 | 61.6 | 275 |

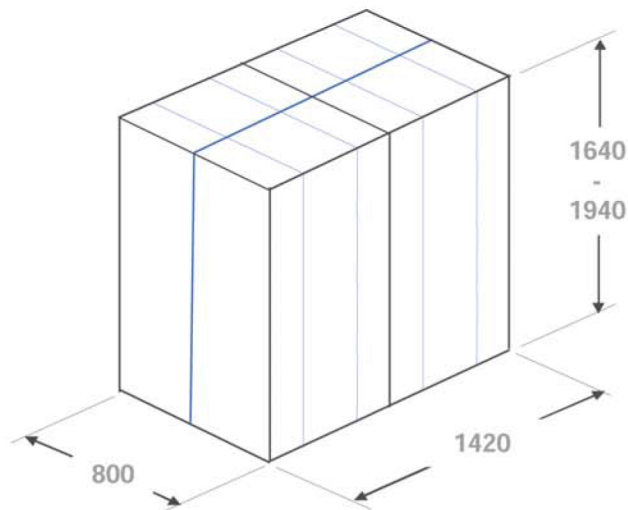
Typical values are averages from all mill quality control samples during 2014. They are given in good faith to represent mill performance and do not constitute contractual undertaking. Values in the table are mean (indicative) values from pulp testing with Voith-Sulzer refining, using standard water. Specific Edge Load 2,5 J/m, ISO testing methods (H 50%, 23 °C, 60 gr/m² sheets).

UPM Conifer Kymi

Small bale unit configuration



Big bale unit configuration



Sheets

Size: 80 x 71 cm

Grammage: 850 g/m²

Small bale unit configuration

Small bale

Size: 82 x 73 x 41-48 cm

Weight: 250 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 2,3 mm.

Small bale units

Size: 82 x 145 x 164 -194 cm

Weight: 2000 kg (8x250 kg)

Wires: 8 galvanized wires, diameter 3,0 mm

Jumbo unit configuration

Big bale

Size: 82 x 73 x 164 - 194 cm

Weight: 1000 kg

Wrapping: No wrapping

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

Wires: 4 galvanized wires, diameter 3,0 mm.

Big bale units

Size: 82 x 145 x 164-194 cm

Weight: 2000 kg (2x1000 kg)

Wires: 8 galvanized wires, diameter 3,0 mm



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