

Tailor made TCF\* High Yield Pulp with premium bulk for board and book papers

# Metsä High Yield

## SUPER BULK 440

Datasheet Updated: 24/11/2022

### Target values

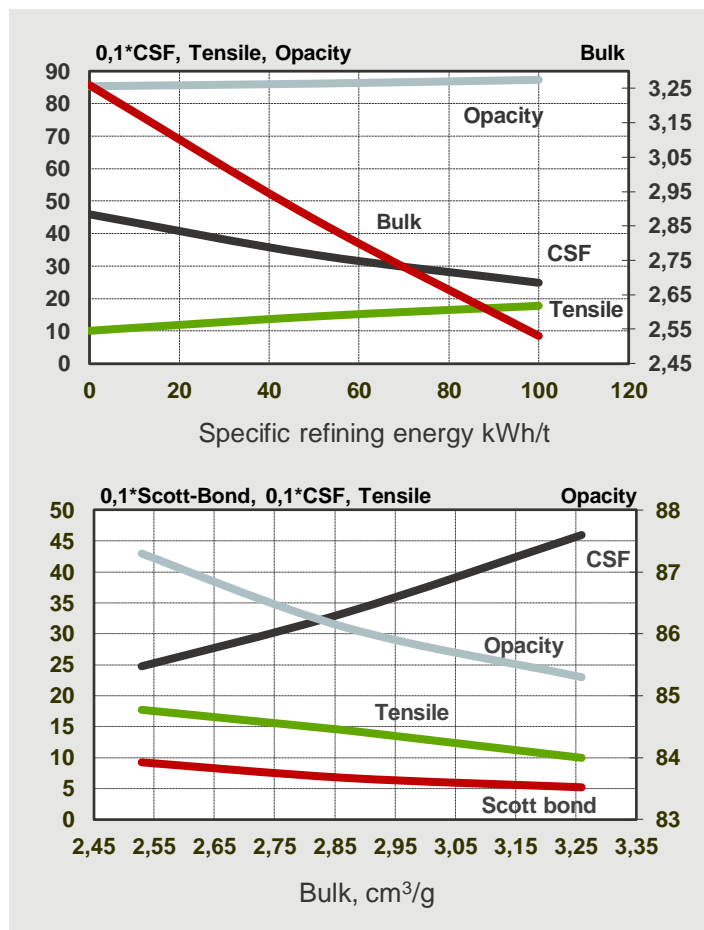
<b>Bulk, cm<sup>3</sup>/g</b> 3.2 (min. 3.0) ISO 5270/534	<b>Brightness %</b> 82.0 (min. 78) ISO 2470-1
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### Raw material

<b>Hardwood</b> Birch	<b>Softwood</b> Spruce
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### Pulp characteristics

<b>Canadian standard freeness, ml</b> ISO 5267-2	440
<b>pH</b> ISO 6588	7.0
<b>Shives (Pulmac, %)</b> 0.004" slots	< 1 (max. 1,5)



Beating energy kWh/t	CSF ml	Bulk cm <sup>3</sup> /g	Tensile index Nm/g	Tear index mNm <sup>2</sup> /g	Scott-Bond J/m <sup>2</sup>	Opacity %	Light scattering m <sup>2</sup> /kg	Air resistance (Gurley) s
0	395	3,26	10,0	1,4	52	85,3	43,8	0,4
50	315	2,87	14,4	1,6	67	86,1	47,3	1,3
100	242	2,53	17,7	1,9	92	87,3	50,4	4,1

Typical (indicative) values from pulp testing with Voith-Sulzer LR1-laboratory refiner. Specific Edge Load 0,3 J/m, ISO testing methods (ISO 5263-3 Conventional sheet former using a closed water system), testing climate 50 % RH, 23°C. PLEASE NOTE! The laboratory refining results are given only to inform how different properties develop during the refining. Quality control of Metsä Board High Yield Pulp is based on measurements of 140 gsm handsheet.

\*TCF = Totally Chlorine Free



Metsä Board, Kaskinen  
Address: FI-64260 Kaskinen, Finland

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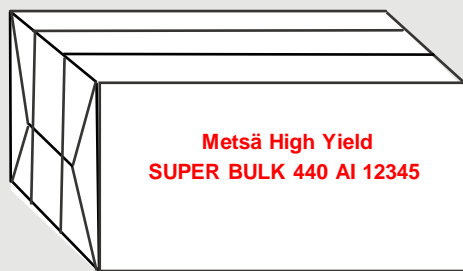
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### End uses

Board and tissue

High bulk uncoated and coated P & W

### Bales



**Size** 90 x 60 x 60 cm

**Gross weight** c. 230 kg

**Wrappers** Kraft paper sheet

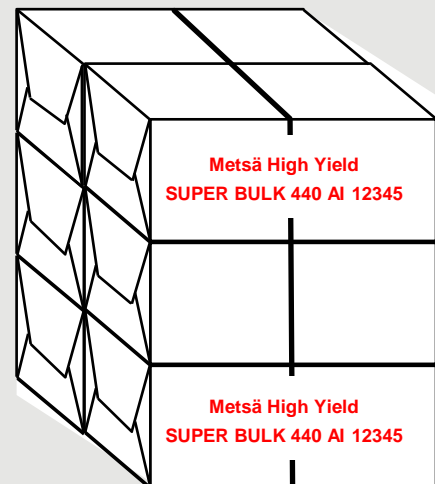
**Wires** 2 galvanized wires, diameters 2.3 mm

**Markings** Red ink-jet printing, water soluble ink  
Brand name and bale number stamped on the bale

### Certificates

ISO 9001	Quality system	<input checked="" type="checkbox"/>
ISO 14001	Environmental management system	<input checked="" type="checkbox"/>
OHSAS 18001	Health and safety management system	<input checked="" type="checkbox"/>
ISO 22000	Food safety management system	<input checked="" type="checkbox"/>
ISO 50001	Energy management system	<input checked="" type="checkbox"/>
PEFC™ COC	Chain of Custody	<input checked="" type="checkbox"/>
FSC® COC	Chain of Custody, Controlled wood	<input checked="" type="checkbox"/>

### Units



**Size** 90 x 120 x 180 cm

**Gross weight** 1,380 kg, 6 bales in unit

**Wires** 6 galvanized wires, diameter 3.0 mm