

Metsä High Yield SUPER BULK



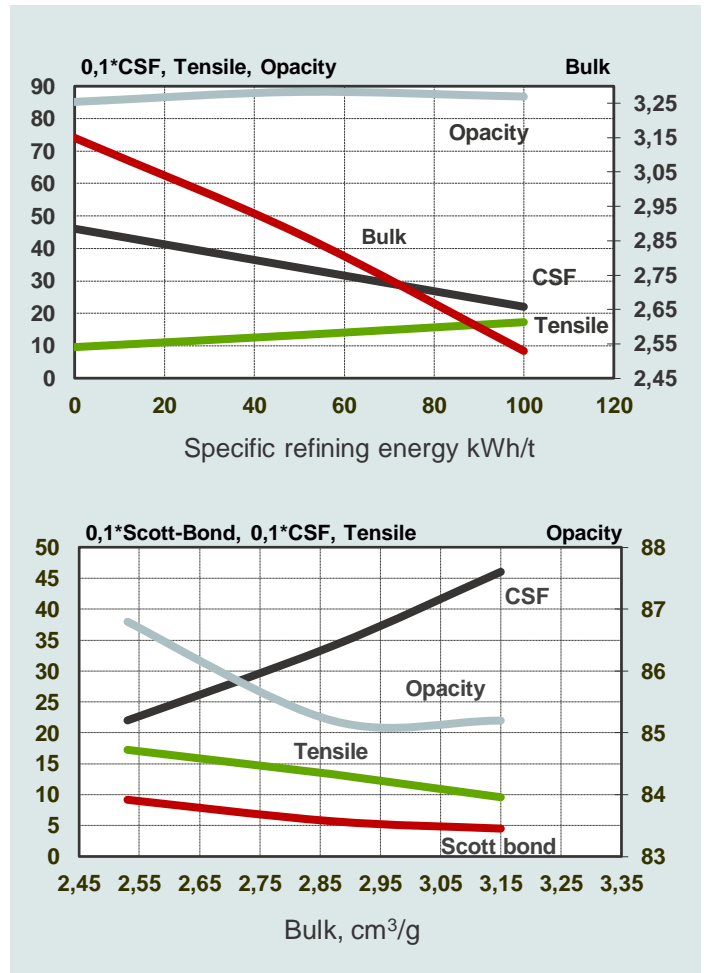
Datasheet updated: June 2024

Metsä High Yield SUPER BULK is tailor made TCF (Totally Chlorine Free) High Yield Pulp, It is made from high-quality Nordic birch (*Betula verrucosa*) and spruce (*peicea abies*). The wood we use is sustainably sourced and traceable. We offer this product in cooperation with Metsä Board and produce them at Metsä Board's Kaskinen mill in Finland.

Pulp characteristics		
Canadian standard freeness, ml	ISO 5267-2	470
pH	ISO 6588	7
Shives (Pulmac, %)	0.004" slots	< 1 (max. 1,5)

Target values		
Bulk, cm ³ /g	ISO 5270/534	3.2 (min. 3.0)
Brightness %	ISO 2470-1	81.0 (min. 78)

Raw material	
Hardwood	Birch
Softwood	Spruce



Beating energy kWh/t	CSF ml	Bulk cm ³ /g	Tensile index Nm/g	Tear index mNm ² /g	Scott-Bond J/m ²	Opacity %	Light scattering m ² /kg	Air resistance (Gurley) s
0	460	3,15	9,6	1,4	45	85,2	46,1	1,0
50	340	2,87	13,3	1,5	57	86,2	50,7	3,0
100	220	2,53	17,3	1,6	92	86,8	52,5	7,2

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.

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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
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
End uses	
Board and tissue	
High bulk uncoated and coated Printing & Writing	
Certificates	
ISO 14001	Environmental management system
ISO 9001	Quality management system
PEFC COC	Chain of Custody, controlled sources License PEFC/02-31-92
FSC® COC/CW	Chain of Custody, controlled wood License FSC-C001580
ISO 50001	Energy management system
OHSAS 18001	Health and safety management system
ISO 22000	Food safety management system

