

UPM FINE H/C

The name says it all. UPM Fine. It provides high brightness, optimal opacity and outstanding suitability for processing. UPM Fine is a flexible multi-use paper. It's ideal grade for flyers, business reports, magazines and posters.

UPM FINE H/C:

Category	Heatset web offset papers Coldset web offset papers
Grade	Woodfree uncoated (WFU)
End use	Advertising material Books Business forms Direct mailing Magazines Newspaper supplements Posters
Finish	Machine finished
Furnish	Hardwood and softwood sulphate pulp
Printing method	Coldset web offset Heatset web offset Waterless printing
Format/Size	Reels
Reel Diameter (cm)	100,0 - 140,0
Reel Width (cm)	17,0 - 283,0
Core (mm)	70,0 / 71,0 / 76,0 / 152,0
Wrapping	Strong kraft paper Strong moisture proof polyethylene laminated kraft paper
Certificates and labels	94/62 EC Heavy Metal Certificate BfR Food Certificate EMAS EN 71/3:1988 D Safety of Toys EU Ecolabel FSC Chain-of-Custody ISO 14001 ISO 50001 ISO 9001 OHSAS 18001 PEFC Chain-of-Custody Permanent Paper ISO 9706
Note	FSC® and PEFC™ on request but subject to availability. Energy Management system ISO 50001 in place at Nordland Mill.

TECHNICAL TARGET VALUES:

Basis Weight (ISO 536) (g/m²)	60.0	70.0	80.0	90.0	100.0	110.0	120.0	140.0	150.0	170.0	190.0	250.0	300.0	350.0
Thickness (ISO 534) (µm)	75.0	88.0	100.0	113.0	125.0	132.0	144.0	161.0	173.0	187.0	209.0	275.0	330.0	385.0
Bulk (ISO 534) (cm³/g)	1.25	1.25	1.25	1.25	1.25	1.20	1.20	1.15	1.15	1.10	1.10	1.10	1.10	1.10
Brightness D65 (ISO 2470-2) (%)	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
CIE Whiteness (%)	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
L-value D65 (D65/10°) (ISO 5631-2)	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
a-value D65 (D65/10°) (ISO 5631-2)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
b-value D65 (D65/10°) (ISO 5631-2)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Opacity ISO (2471) (%)	87.0	90.0	92.5	94.5	95.5	96.5	97.0	98.0	98.5	99.0	99.5	99.7	99.9	99.9
Roughness Bendtsen (ISO 8791-2) (ml/min)	200.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0

Please note: Technical values are informative and subject to production variations.

PREPRESS GUIDELINES:

CIE L*-value (D50/2°) WB	93.7
CIE a*-value (D50/2°) WB	2.5
CIE b*-value (D50/2°) WB	-7.0
Max. Total Area (TAC%)	300
ICC Paper profile	PSO_Uncoated_ISO12647_eci.icc
TVI Curve	C(CMY), D(K)
AM Screen recommendation (l/cm)	60
ISO/ECI Profile (FM)	PSO_Uncoated_NPscreen_ISO12647_eci.icc
FOGRA Char. Data (FM)	FOGRA44L.txt
TVI Curve (FM)	F(CMYK)
FM Screen recommendation (µm)	35
Measurement condition for D50	ISO 13655, M0; D50/2°
Measurement equipment	Techkon RS800