

## 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:

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

TECHNICAL TARGET VALUES:

<b>Basis Weight (ISO 536) (g/m<sup>2</sup>)</b>	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
<b>Thickness (ISO 534) (µm)</b>	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
<b>Bulk (ISO 534) (cm<sup>3</sup>/g)</b>	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
<b>Brightness D65 (ISO 2470-2) (%)</b>	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
<b>CIE Whiteness (ISO 11475:2017) (%)</b>	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
<b>L-value D65 (D65/10°) (ISO 5631-2)</b>	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
<b>a-value D65 (D65/10°) (ISO 5631-2)</b>	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>b-value D65 (D65/10°) (ISO 5631-2)</b>	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
<b>Opacity ISO (2471) (%)</b>	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
<b>Roughness Bendtsen (ISO 8791-2) (ml/min)</b>	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.