



Commercial Substrate Evaluation Report

Certified for **HP Indigo**

Supplier Information Neenath Paper Supplier Address 3460 Preston Ridge Rd., Suite 600, Alpharetta, GA, 3∪∪5 Supplier Country USA Product Information Product Cotegory Paper Grammage (gsm) / Bosis weight (#) 118 gsm/80# Thickness (microns/coliper) 152 um/6 mils Certification Number R15500-15-3815 Certification Center RIT Date of Evaluation 02/13/2015 Evaluated on Interpolation Evaluation Process Interpolation Evaluation Process Interpolation Evaluation Process Interpolation Evaluation Process Interpolation Evaluation Process Interpolation Evaluation Process Interpolation Interpolation Grammatics Process Interpolation Evaluation Process Interpolation Process Interpolation Interpolation										
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Interpolation Result Grade (stars) Comments	Date of Evaluation		02/13/2015		Evaluated on		Interpolation			
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White Ink Recommended >80% after 10 or 60 min Blanket Compatibility Cleaner Pages 1st clean page after 12K impressions	Photo Flaking	<1mm, % Coverage								
Blanket Compatibility Cleaner Pages 1st clean page after 12K impressions	Photo Recommended	>	>80% after 10 or 60 min							
Cleaner Pages 1st clean page after 12K impressions	White Ink Recommended	>	80% after 10 or 60 min							
Cleaner Pages impressions	Blanket Compatibility					A A	A			
Evaluation Result Pass	Cleaner Pages	1				**	*			
	Evaluation Result			Pass						

Comment Detail:

The substrate certification procedure incorporates several processes.

An initial screening evaluation is followed by a more comprehensive evaluation looking at the performance of the particular substrate within the press. This checks for:

Runnability:

The ability of the substrate to run smoothly through the press in various print modes.

Fixing:

Ink-substrate interaction as determined by: 1) The degree of ink adhesion to the substrate for standard and photo-related applications as measured in a tape peel test of the image; and 2) The degree of flaking of the ink layer. The fixing properties are measured through a range of blanket temperatures and pressures.

Blanket Compatibility:

Blanket-substrate interaction as determined by: 1) Ink-transferability, which is the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity; 2) 'Blanket Memory' effects, reflected in gloss or density differences between solids and background areas of the previously printed image; and 3) Number of cleaner pages, in which blankets are routinely maintained by performing a self cleaning procedure ("cleaner pages") used to refresh the blanket's release layer.

Photo and White Ink Applications:

Use of robust media products is strongly recommended when printing photo-related and/or white ink applications and/or Light Cyan and Light Magenta due to additional ink coverage demands of these applications. This media has been tested and approved to perform well with higher levels of ink coverage, and is therefore recommended for photo-related and/or white ink type applications. However, it is strongly recommended that user acceptance ultimately be evaluated per individual application and finishing requirements, etc. The test results are provided as a guide; assess actual performance to determine suitability for individual use.

Star Rating



		***	**	*	
Evaluation	Measurement	Best-performing Recommended		Good	Failure
Transport	Runnability	No jams with the tested paper	No more than 1 jam or minor issue with the tested paper	No more than 1 jam and minor issues with the tested paper	2 jams with the tested paper, control performs well
Fixing	Peeling	All 4 results are ≥ 90%	All 4 results are ≥ 80%	At least 1 result is ≥ 80%	All results < 80%
Flaking Guillotine, 5min ● Coated		All results are > 250%	At least 1 result is > 250%	At least 1 result is > 200%	Results < 200%
Flaking Guillotine, 5min ● Uncoated		Result is > 300%	Result is > 250%	Result is > 200%	Results < 200%
Photo	Peeling 290% Black	Result is > 80% after 10 or 60 minutes		N/A	Results < 80%
PHOTO	Flaking Guillotine, 5min	<1mm	at 350% K	N/A	Results > 1 mm
Blanket	Cleaner Sheets	1ª Red is clean	3™ Red is clean	5 th Red is clean	5 th Red not clean, or White observed
Compatibility	Monitors on tested paper and reference glossy paper	Very minor memories at least up to 12K impressions	Slight memories may be seen up to 12K impressions	Some memories may be seen by 12K impressions	Severe lack of dots/cracks/gloss memory

This substrate is certified for the next two years from the date of evaluation, provided there is no change to the paper properties or production processes. At the end of two years from the original evaluation date, if there have been no changes in paper properties or production processes, the certification can be extended for another two years. After four years from the original certification date, a new certification is required.



