ReichPaper AVEO Tree Free Paper

About AVEO

AVEO is a tree free text and cover range of paper made from 90% sugar cane stalk (Bagasse) which is left over after the sugar cane stalks are crushed to extract their juice to make sugar. This sustainable and renewable resource has traditionally been burned or placed in a landfill.

The balance of 10% of AVEO is made from a combination of linen and hemp which are both left over from the textile industry. This material is added to enhance folding and strength characteristics. This material would also end up in a landfill if it were not used to make AVEO.

Because AVEO paper is made from mostly sugarcane pulp, sometimes small particles of the stalk can be seen and is to be expected. Although usually very clean, sometimes small brown spots or brown fibers can appear in White Sugar and sometimes small white spots can appear in Brown Sugar.

AVEO is recyclable, biodegradable, acid free and elemental chlorine free.

AVEO® is a registered trademark of Reich Paper.

AVEO can be used for:

Offset Printing
Letterpress Printing
Digital Printing
Foil-Stamping
Scoring & Folding
Engraving
Thermography
Die Cutting
Calligraphy
Laser Printing
Envelope Conversion

AVEO 80# text is ink jet and laser compatible although pre-testing is recommended.

Caliper

Caliper is a measure of the thickness of a sheet of paper (1 pt. = 1/1000 of an inch).

Below is a list of basis weights and corresponding calipers of AVEO. All Reich Paper grades are manufactured to a basis-weight standard, not to caliper. Calipers here (and in stock charts) are provided for reference, but may vary slightly from run to run, as is typical for any paper.

AVEO Weight	GSM	Caliper
80# Text	120	6
92# Cover	250	13
118# Cover	320	17

Printing

Offset

Inks: Standard offset inks may be used when printing on AVEO.

Laser: AVEO is suitable for laser printing. Pretesting is essential as performance will vary from one printer to another.

Ink Jet: AVEO is suitable for both monochrome and color ink jet printing, but results may vary from one printer to another. It is mportant to pretest on the actual printer to be used.

Digital: AVEO 80# Text, 92# Cover and 118# Cover have been successfully printed on Xerox iGen, Kodak NexPress and Konica Minolta digital presses.

Design and PrePress

Design & PrePress: Our paper stock charts list all sheet sizes with grain direction last. As for all papers, binding and folding AVEO parallel to the grain direction is recommended.

Dot Gain: Printing on AVEO will result in similar dot gain as printing on other uncoated paper.

Line Screen: In general, line screens ranging from 150-200 are used for printing on AVEO.

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On Press

Storage & Handling: As for all papers, avoid exposing AVEO to extreme humidity or temperature conditions.

Spray Powder: Normal spray powder may be used when printing on AVEO.

Finishing

Varnish & Aqueous Coating: As with all papers, varnishing or aqueous coating AVEO after printing can help to protect the printed area.

Foil Stamping: AVEO foil stamps beautifully. As with most processes, we strongly recommend pre-testing as there are many variables (types of foils, complexity of the design, pressure, environment, etc…)

Scoring & Folding: AVEO will score and fold beautifully. As for all papers, folding with the grain direction is preferred. We recommend a rounded channel score with a minimum width of 2.5 times the caliper of the sheet. All AVEO weights are ideal for converting and packaging applications.

Binding: Binding should always run parallel to the grain direction.

Please contact us if you have any questions about the Technical Printing & Use information included here or if you need information about any other topics. We have endeavored to address most aspects of printing and use here; however we do not accept liability for any errors or omissions. Should you have any questions, or need additional information please contact us at 718.748.6000.

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ReichPaper CT Translucent Vellums

About CT

Made from pure cellulose fiber, CT is naturally translucent, and free of the resins and chemical additives that make some other translucent papers brittle and hard to fold. With outstanding formation and translucency, CT is FSC certified, recyclable, biodegradable, acid free, lignin free and elemental chlorine free. (In contrast, resin-impregnated translucents cannot be recycled and are not biodegradable). The entire CT product line is naturally oil and grease resistant, and all CT Clear products (except CT Clear Cover 105#) are FDA approved for direct contact with food.

CT is a specialty paper; therefore, printing and handling of CT, as for all translucent papers, will differ significantly from conventional coated and uncoated papers. CT will print and convert beautifully when used as recommended. As with all papers, you should pretest as necessary before trying anything new. Please contact us to request samples, or discuss any aspect of your project.

CT may be used for a wide range of printing processes, including:

- Offset
- Heat-Set Web*
- Cold-Set Web*
- Laser*
- Ink Jet*
- Silk Screening
- Engraving
- Embossing
- Foil Stamping
- Thermography
- Die Cutting
- Perfect Binding
- Saddle Stitching*
- Scoring & Folding*
- Envelope Conversion*

* not recommended for CT Clear Cover 105# which is a pasted sheet

Caliper

Caliper is a measure of the thickness of a sheet of paper (1 pt. = 1/1000 of an inch). Below is a list of basis weights and corresponding calipers for CT.

All Reich Paper grades are manufactured to a basis-weight standard, not to caliper. Calipers here (and in our stock charts) are provided for reference, but may vary slightly from run to run, as is typical for any paper. If caliper is critical to your project, please contact us to discuss your requirements.

CT Weight	GSM	Target Caliper
17# Bond	65	2.2 pts
24# Bond	90	3.0 pts
30# Bond	112	3.5 pts
36# Bond	135	4.4 pts
43# Bond	160	5.0 pts
48# Bond	180	5.7 pts
105# Cover	285	8.5 pts

Printing

Offset: CT's natural translucency is achieved through super-refining the fibers, which results in an extremely dense sheet and nonporous surface. Conventional printing inks are not suitable for printing on CT. Drying times for translucent papers are longer than for conventional printing papers, and this should be factored in to the production schedule.

Heat-Set Web: CT Clear 24#, 30# & 36# basis weights are fully qualified for heat-set web printing, and frequently used for magazine inserts, automobile catalogs, and other large web jobs. Your paper merchant may contact us to inquire about web-roll size parameters, pricing, and delivery.

Cold Set Web: CT Clear 17# has been successfully printed Cold Set Web and used as newspaper wraps. CT Clear 17# can easily be folded, creased and stapled.

Inks: CT will not absorb ink, so conventional inks must not be used to print on this specialty paper. Use hard-drying, fully-oxidizing inks, as used for printing on plastics and foils. Alternatively, UV-curing inks may be used; these will provide faster drying results than fully-oxidizing inks.

Hydroactive drying agents may be added to the ink or fountain solution, as recommended by the ink supplier, but dryers containing wax should not be used where varnish or lamination is subsequently required.

Laser: CT is suitable for use in most laser printers, but pretesting is essential, as laser printers differ in the amount of heat generated. As with all papers, performance may vary from one printer to another. While various basis weights may be used successfully, we recommend 24# and 30# for optimum toner adhesion. CT Clear Cover 105# is not recommended for laser printing. Unlike resin-impregnated translucents, our paper will not smoke or melt when laser printed; however, excess heat may cause the sheet to curl. If this occurs, stop printing until machine cools down, or adjust heat setting on laser printer.

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Ink Jet: CT Clear 24# and 30# sheets are suitable for single-color ink jet printing (such as text for correspondence and invitations). As printers vary greatly in how they perform, we recommend you test sample sheets before ordering.

Alternative Photographic Processes: CT Clear is compatible with alternative photographic processes, and especially for platinum/palladium printing using both developing-up and print-out methods. CT with platinum/palladium is an ideal pairing for archival reasons, and also because the paper renders an almost grain-free image.

Design and Prepress

Grain Direction: Our paper stock charts list all sheet sizes with grain direction last. For all papers, binding and folding parallel to the grain direction is recommended. For natural translucent papers, like CT, it is essential that this recommendation be followed when binding. Natural translucent paper fibers are super-refined; this gives them translucency, but it also means that the fibers are more delicate, and more prone to shrinking and breaking than conventional coated and uncoated papers. In some cases, binding CT against the grain direction may cause curling and rippling of the paper. Folding and binding CT in the long-grain direction will always provide better results. CT Clear Cover 105# is not recommended for folding as it is a pasted sheet.

When exposed to dry conditions, all papers will tend to shrink, especially in the cross-grain (short-grain) direction. Where this occurs, the rate of shrinkage tends to be greater for natural translucent papers than for other types of printing papers.

Cover Use: If using CT as a cover, to minimize the potential for curl due to changes in atmospheric conditions, it helps to wrap or seal the sheet. Using CT as a wrap-around cover is recommended, as this will stabilize the sheet in the event of changes in temperature or humidity.

Line Screen: In general, line screens ranging from 150-200 are used for printing on CT. It is always advisable to consult with your printer to determine the appropriate line screen for your project.

UCR: For areas of heavy, layered ink coverage, consider the use of UCR (under color removal) in scanning. This will decrease total ink density, and can cut drying times significantly, especially for black.

On Press

Storage and Handling: Natural translucent papers are more reactive to atmospheric conditions than conventional printing papers, and take longer to acclimate to changes in temperature and humidity.

Store unopened in the pressroom, in the original packaging, for a minimum of 24 hours prior to use—longer if previously stored in cold conditions. Store away from vents and open doors where exposure to uncontrolled humidity or excessive heat or cold could occur. Never leave CT uncovered; the paper should remain wrapped or covered with plastic at all stages of printing and finishing.

For best results, pressroom conditions should be as close to ideal as possible: RH of 45-65%, Temperature 63-73° F.

Feeding through Press: To ensure uniform feeding, we recommend sheets be well aired during loading. Rack in small piles. We suggest a maximum of 250 sheets.

If magic eye tripping out problems occur during feeding, adjust the photoreceptor to a finer sensitivity if possible. If unable to adjust to a fine-enough setting, particularly on the printing end, try taping one or two pieces of translucent stock over the eye to give enough opacity for sheets to register.

Dampening Solution: The ink/water solution should be run at an absolute minimum. Excess water will not be absorbed or removed from the blanket; this will slow drying time and may affect the dimensional stability of the sheet.

The fountain solution should be compatible with the inks according to manufacturers' recommendations.

Spray Powder: Use a coated spray powder of normal fineness of less than 1 mil; avoid varnishing powder. Cure in small lifts. Some airing of the stack will be beneficial for ink drying.

Finishing

Pretesting of all finishing operations is recommended. After printing, leave undisturbed for at least 24 hours to prevent offsetting. The finishing environment should be the same as the pressroom; if not, allow the paper time to acclimate to new conditions. The paper must remain wrapped or covered between all stages of the finishing process.

Varnish and Coating: As for all papers, varnishing CT after printing can help to protect the printed area, especially for projects where finishing is complex. However, since the recommended inks for printing on CT dry hard, they already produce a relatively scuff-resistant surface.

Aqueous coatings are not suitable for use on CT, as excess water will cause the sheet to curl.

Embossing: When embossing CT Clear, the embossed area will appear to whiten somewhat. To minimize the potential for cracking, avoid using very sharp tools.

Foil Stamping: When foil stamping on CT, please be aware that large solid areas of foil may be more problematic than smaller areas, because of CT's relatively dense, hard surface.

The success of foil stamping on any substrate depends on pretesting. The printer should consult a foil-stamp supplier, and pretest on the actual stock to be used, as a wide range of variables (types of foils, complexity of the design, pressure, environment, etc.) all determine the success of foil stamping on any stock.

The first step is to decide what sort of foil effect you want, in terms of color and finish. By showing the foil supplier a sample of the substrate you wish to use, and the foil coverage you hope to achieve, he should be able to determine the best foil and release to use. Then, the printer and foil supplier should identify the correct release, thickness, and pressure to ensure that the foil will work well on the specified substrate. An essential part of this process is pretesting on the actual stock to be used.

A foil that works on one paper is not necessarily going to work on a different type—nor should it be expected to do so. Likewise, a lightweight stock may require an easier release than a heavier weight of the same paper.

Thermography: As with all printing and finishing applications, you should consult with your printer and pretest as necessary. Because this is a dense, hard stock, there is some potential for thermography to smear. If this occurs, slipsheeting at the end of the press is one possible solution. CT Clear Cover 105# is not recommended for thermography as the heat may cause delamination of this pasted stock.

Scoring & Folding: CT Bond basis weights are natural translucent papers, and thus are fully suited for most folding applications. CT Clear Cover 105# is not recommended for folding as it is a pasted sheet. As with all papers, a fold parallel to the grain is always preferred. This is especially important as basis weights increase: for weights in excess of 30#, a fold parallel to the grain is recommended, as is a rounded channel score with a minimum width of 2.5 times the caliper of the sheet.

Take extra care when folding in low-humidity conditions, or where the paper may have lost moisture during an earlier process.

Binding: Binding should always run parallel to the grain direction. (For extensive information on the importance of grain direction in binding, please refer to our Paper Terms.

Except for CT Clear Cover 105#, CT may be saddle-stitched and even sewn without a problem (unlike the more brittle resin-impregnated translucents, which tend to crack when folded and stapled).

For Perfect Binding, a variety of glues may be used successfully, but aqueous-based adhesives must be applied sparingly. Hot-melt glues are preferred.

Trimming & Cutting: Cut in small stacks; a two-inch maximum thickness is recommended.

Do not use a sharpened blade; a slightly dull but polished 23-degree bevel-angle guillotine blade is ideal. (Because natural translucent papers are very dense, the hard surface could cause a sharpened blade to chip if grinding marks remain in the sharpened edge.)

Likewise, for Die Cutting, a dull blade is recommended, and paper to be die-cut should be put up in small stacks.

CT Envelopes

CT envelopes are wonderfully eye-catching, and boast higher-than-average response rates when used for direct mail. As with any envelope, it is essential that the size of the insert be appropriate for the envelope, and that the contents not be too thick, which could cause problems as it passes through automated postal machinery. CT envelopes will work beautifully with single-panel and folded cards, but should not be used for multiple folded pieces, booklets or catalogs.

For every standard envelope size, there is a corresponding enclosure size that is recommended. Please be sure that your insert is neither too large (generally an insert should be ½″ – ¼″ smaller than the envelope, both in its width and its height), nor too small (an insert that is undersize may move around too much within the envelope, and thus cause seams to give way).

We recommend conducting a test mailing to ensure that the envelope and contents are compatible in terms of size and bulk. Sample envelopes are available for that purpose.

FDA Approved

All CT Clear (except CT Clear Cover 105#) is FDA approved for direct food contact.

Grease Resistant

The entire CT product line is naturally oil and grease resistant.

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Please contact us if you have any questions about the Printing and Use information included here, or need information about any other topics. CT is a specialty paper and, like any substrate, should be fully tested prior to use, especially if trying something for the first time.

We have endeavored to address most aspects of printing and use here; however, we do not accept liability for any errors or omissions. Should you have any questions, or need any additional information, please contact us at 718.748.6000.

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ReichPaper DIGITAL Digital Paper Collection

Printing

SHINE Digital HP: SHINE Digital HP Pearl, Champagne and Silver Text and Cover papers are certified for use on HP Indigo digital presses. These papers have a new surface treatment designed for improved Electro-Ink adhesion on HP Indigo presses and have no shelf-life limitation. This new surface treatment is not suitable for toner digital presses.

SHINE Digital Toner: SHINE Digital Toner Pearl, Champagne and Silver Text and Cover papers are specially formulated for all toner-based digital printing platforms.

Caliper

Caliper is a measure of the thickness of a sheet of paper (1 pt. = 1/1000 of an inch). Below is a list of basis weights and corresponding calipers for DIGITAL.

All Reich Paper grades are manufactured to a basis-weight standard, not to caliper. Calipers here (and in our stock charts) are provided for reference, but may vary slightly from run to run, as is typical for any paper. If caliper is critical to your project, please contact us to discuss your requirements.Please contact us if you have any questions about the Technical Printing & Use information included here or if you need information about any other topics. We have endeavored to address most aspects of printing and use here; however we do not accept liability for any errors or omissions. Should you have any questions, or need additional information please contact us at 718.748.6000.

Stock	CT Weight	GSM	Target Caliper
SAVOY Brilliant White Digital HP	118# C	320	20.0
SAVOY Natural White Digital HP	118# C	320	20.0
SHINE Champagne Digital HP	80# T	120	6.0
SHINE Champagne Digital HP	107# C	290	14.0
SHINE Champagne Digital Toner	80# T	120	6.0
SHINE Champagne Digital Toner	107# C	290	14.0
SHINE Pearl Digital HP	80# T	120	6.0
SHINE Pearl Digital HP	107# C	290	14.0
SHINE Pearl Digital Toner	80# T	120	6.0
SHINE Pearl Digital Toner	107# C	290	14.0
SHINE Silver Digital HP	80# T	120	6.0
SHINE Silver Digital HP	92# C	250	12.0
SHINE Silver Digital Toner	80# T	120	6.0
SHINE Silver Digital Toner	92# C	250	12.0

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ReichPaper
ODEON Lush Felt Textures

About ODEON

ODEON is a genuine felt-finish paper, with deep, rich texture. ODEON is FSC certified, recyclable, biodegradable, acid free, and elemental chlorine free.

ODEON will perform beautifully when used as recommended. As with all papers, it is essential to consult your printer and pretest before trying anything new. Please contact us to request samples or discuss any aspect of your project.

ODEON may be used for a wide range of printing processes, including:

- Offset
- Letterpress
- Digital (80# Text, 118# Cover)
- Embossing
- Engraving
- Foil Stamping
- Thermography
- Silk Screening
- Die Cutting
- Perfect Binding
- Saddle Stitching
- Scoring & Folding
- Envelope Conversion

Caliper

Caliper is a measure of the thickness of a sheet of paper (1 pt. = 1/1000 of an inch). Below is a list of basis weights and corresponding calipers for ODEON.

All Reich Paper grades are manufactured to a basis-weight standard, not to caliper. Calipers here (and in our stock charts) are provided for reference, but may vary slightly from run to run, as is typical for any paper. If caliper is critical to your project, please contact us to discuss your requirements.

ODEON Weight	GSM	Target Caliper
84# Text	125	7 pts.
118# Cover	320	18 pts.

Printing

Genuine Felt Finish: Genuine-felt papers, also called true felts, are manufactured using fabric blankets on the wet end of the paper machine. Please note that ODEON Gala and Vintage, both feature a felt finish on one side only; the other side is smooth. Additionally, text-weight felt finishes will always differ somewhat from cover-weight finishes; this is because the felt marking blankets cannot press as deeply into the thinner text-weight stock as they can into the thicker cover stock.

Compared to embossed-finish papers, which are extremely compressed, felt-finish sheets are somewhat more absorbent, as well as more dimensionally stable.

Inks: Our ODEON line may be printed using standard offset inks. Fully-oxidizing inks or UV-curing inks are also suitable for use on ODEON (as they are for all papers), and will provide faster drying results than standard inks.

Laser: ODEON 84# text is suiitable for laser printing. As for for any paper, pretesting is essential as performance may vary from one printer to another.

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Design and PrePress

Grain Direction: Our paper stock charts list all sheet sizes with grain direction last. As for all papers, binding and folding ODEON parallel to the grain direction is always recommended.

Dot Gain: Printing on felt-textured papers will result in greater dot gain than printing on smoother, harder papers. This is to be expected, and prepress file preparations should take this factor into account, adjusting dot size and ink densities to compensate for the increased dot gain.

Line Screen: In general, line screens ranging from 150-200 are used for printing on ODEON. It is always advisable to consult with your printer to determine the appropriate line screen for your project.

UCR: For areas of heavy, layered ink coverage, consider the use of UCR (under color removal) in scanning. This will decrease total ink density, and can cut drying times significantly, especially for black.

On Press

Storage & Handling: As for all papers, avoid exposing ODEON to extreme humidity or temperature conditions, and keep in the original mill wrapping as long as possible prior to use.

Spray Powder: Use a coated spray powder of normal fineness, and stack in small lifts. Airing the stack will be beneficial for ink drying, especially for ODEON's heavy cover weights.

Finishing

Varnish & Aqueous Coating: As with all papers, varnishing or aqueous coating ODEON after printing can help to protect the printed area.

Foil Stamping: ODEON foil stamps beautifully.

The success of foil stamping on any substrate depends on pretesting. The printer should consult a foil-stamp supplier, and pretest on the actual stock to be used, as a wide range of variables (types of foils, complexity of the design, pressure, environment, etc.) all determine the success of foil stamping on any stock.

The first step is to decide what sort of foil effect you want, in terms of color and finish. By showing the foil supplier a sample of the substrate you wish to use, and the foil coverage you hope to achieve, he should be able to determine the best foil and release to use. Then, the printer and foil supplier should identify the correct release, thickness, and pressure to ensure that the foil will work well on the specified substrate. An essential part of this process is pretesting on the actual stock to be used.

A foil that works on one paper is not necessarily going to work on a different type—nor should it be expected to do so. Likewise, a lightweight stock may require an easier release than a heavier weight of the same paper.

Scoring & Folding: Both ODEON weights (84# text and 118# cover) should be scored prior to folding, to ensure the best possible fold. As for all papers, folding with the grain direction is preferred. We recommend a rounded channel score with a minimum width of 2.5 times the caliper of the sheet.

ODEON is a single-ply (not pasted) sheet, making ODEON cover weights ideal for converting and packaging applications.

Binding: Binding should always run parallel to the grain direction. (For extensive information on the importance of grain direction in binding, please refer to our Paper Terms page.)

Please contact us if you have any questions about the Printing and Use information included here, or need information about any other topics. ODEON is a specialty paper and, like any substrate, should be fully tested prior to use, especially if trying something for the first time.

We have endeavored to address most aspects of printing and use here; however, we do not accept liability for any errors or omissions. Should you have any questions, or need any additional information, please contact us at 718.748.6000

ReichPaper

SAVOY

Pure, Luxurious Cotton

About SAVOY

Made from 100% pure cotton, SAVOY blends old world elegance with new world sophistication making it the perfect choice for a wide range of projects from identity packages and invitations to luxury packaging. Its sumptuous, elegant look and feel is perfectly formulated for:

Letterpress Printing	Engraving
Digital Printing	Blind Embossing
Offset Printing	Die Cutting
Foil-Stamping	Thermography
Calligraphy	Ink Jet
Scoring & Folding	Envelope Conversion

SAVOY 80# text and matching envelopes are ink jet and laser compatible.

SAVOY is tree free, acid free, recyclable, biodegradable, and elemental chlorine free.

Caliper

Caliper: Caliper is a measure of the thickness of a sheet of paper (1 pt. = 1/1000 of an inch). Below is a list of basis weights and corresponding calipers of SAVOY. All Reich Paper grades are manufactured to a basis-weight standard, not to caliper. Calipers here (and in stock charts) are provided for reference, but may vary slightly from run to run, as is typical for any paper. If caliper is critical to your project, please contact us to discuss your requirements.

SAVOY Weight	GSM	Target Caliper
80# Text	120	8 pts.
92# Cover	250	16 pts.
118# Cover	320	20 pts.
129# Cover	350	22 pts.
184# DT Cover	500	30 pts.
236# DT Cover	640	40 pts.

Printing

Offset

Inks: Standard offset inks may be used when printing on SAVOY. Because it is manufactured from 100% pure cotton, SAVOY is very absorbent and will dry considerably faster than our other specialty papers.

(If mottling occurs when printing certain colors, it may be helpful to add opaque white to ink formulation).

Laser: SAVOY is suitable for laser printing. As for any paper, pretesting is essential as performance may vary from one printer to another.

Ink Jet: SAVOY is suitable for both monochrome and color ink jet printing, but results may vary from one printer to another. As always, it is important to pretest on the actual printer to be used.

Digital: SAVOY 80# Text, 92# Cover and 118# Cover have been successfully run on Xerox iGen, Kodak NexPress, Konica Minolta, as well as most other toner based digital presses. Though our SAVOY Brilliant White Digital HP 118# Cover and Natural White Digital HP 118# Cover are too thick to attain HP certification, we stock in 20.75 x 29.4375, 19 x 13 and 18 x 12, both of which can produce beautiful results with HP Indigo digital presses.

Design and PrePress

Design and PrePress: Our paper stock charts list all sheet sizes with grain direction last. As for all papers, binding and folding SAVOY parallel to the grain direction is always recommended.

Dot Gain: Printing on SAVOY will result in similar dot gain as printing on other uncoated paper. Expected dot gain on SAVOY will be approximately 15%.

Line Screen: In general, line screens ranging from 150-175 are used for printing on SAVOY.

On Press

Storage & Handling: As for all papers, avoid exposing SAVOY to extreme humidity or temperature conditions.

Spray Powder: Normal spray powder may be used when printing on SAVOY.

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Finishing

Varnish & Aqueous Coating: As with all papers, varnishing or aqueous coating SAVOY after printing can help to protect the printed area.

Foil Stamping: SAVOY foil stamps beautifully. As with most processes, we strongly recommend pre-testing as there are many variables (types of foils, complexity of the design, pressure, environment, etc…)

Scoring & Folding: SAVOY 80# Text, 92# Cover, 118# Cover, and 129# Cover will score and fold beautifully. These SAVOY weights (80# text, 92# cover, 118# cover, 129# Cover) should be scored prior to folding, to ensure the best possible fold. As for all papers, folding with the grain direction is preferred. We recommend a rounded channel score with a minimum width of 2.5 times the caliper of the sheet. SAVOY 80# Text, 92# Cover, 118# Cover, and 129# Cover are single-ply papers (not pasted) making SAVOY cover weights ideal for converting and packaging applications. SAVOY Double Thick 236# Cover is a pasted paper (2 x 118# covers pasted together) and therefore will not score and fold like our single-thick papers.

Binding: Binding should always run parallel to the grain direction.

Please contact us if you have any questions about the Printing and Use information included here, or need information about any other topics. We have endeavored to address most aspects of printing and use here; however we do not accept liability for any errors or omissions. Should you have any questions, or need any additional information, please contact us at 718.748.6000.

ReichPaper
SHINE Shimmering Metallic

About SHINE

SHINE's luminous surface was developed to show through most printing inks, and enrich any design. SHINE is FSC certified, recyclable, biodegradable, acid free, and elemental chlorine free, and is manufactured without the use of metals or foils.

SHINE is a specialty paper and, as such, does differ in some aspects of printing from conventional coated and uncoated papers. SHINE will perform beautifully when used as recommended. As with all papers, it is important to consult your printer and pretest before trying anything new. Please contact us to request samples, or discuss any aspect of your project.

SHINE may be used for a wide range of printing processes, including:

Offset
Digital
Laser
Ink Jet
Letterpress
Silk Screening
Engraving
Embossing
Foil Stamping
Thermography
Die Cutting
Perfect Binding
Saddle Stitching
Scoring & Folding
Envelope Conversion

Caliper

Caliper is a measure of the thickness of a sheet of paper (1 pt. = 1/1000 of an inch). Below is a list of basis weights and corresponding calipers for SHINE.

All Reich Paper grades are manufactured to a basis-weight standard, not to caliper. Calipers here (and in our stock charts) are provided for reference, but may vary slightly from run to run, as is typical for any paper. If caliper is critical to your project, please contact us to discuss your requirements.

SAVOY Weight	GSM	Target Caliper
80# Text	120	6 pts.
92# Cover	250	12 pts.
107# Cover	290	14 pts.
137# Cover	350	17 pts.

Printing

Offset: SHINE's lustrous effect is intended to be visible through the printed image, though heavy ink densities may somewhat diminish the effect. SHINE is less absorbent than standard uncoated papers, so general process inks are not compatible with this specialty stock. Drying times will be longer than for standard papers, and this should be factored into the production schedule.

Inks: SHINE is a specialty substrate, and conventional inks are not suitable for printing on this stock. Fully-oxidizing or UV-curing inks must be used when offset printing on SHINE. Drying results will be faster for UV inks than for fully-oxidizing inks.

Laser: SHINE is suitable for laser printing. As for any paper, pretesting is essential as performance may vary from one printer to another.

Ink Jet: SHINE is suitable for both monochrome and color ink jet printing, but results will vary from one printer to another. As always, it is important to pretest on the actual printer to be used.

SHINE Digital HP: SHINE Digital HP Pearl, Champagne and Silver Text and Cover papers are certified for use on HP Indigo digital presses. These papers have a new surface treatment designed for improved Electro-Ink adhesion on HP Indigo presses and have no shelf-life limitation. This new surface treatment is not suitable for toner digital presses.

SHINE Digital Toner: SHINE Digital Toner Pearl, Champagne and Silver Text and Cover papers are specially formulated for all toner-based digital printing platforms.

Design and Prepress

Color Separations: SHINE will print somewhere between coated and uncoated paper. We recommend using curves closer to that of coated paper. The total area of coverage should not exceed 260%.

Grain Direction: Our paper stock charts list all sheet sizes with grain direction last. As for all papers, binding and folding SHINE parallel to the grain direction is always recommended.

Line Screen: In general, line screens ranging from 150-200 are used for printing on SHINE. It is always advisable to consult with your printer to determine the appropriate line screen for your project.

UCR: For areas of heavy, layered ink coverage, such as blue or black, consider the use of UCR (under color removal) in scanning. This will decrease total ink density, and can cut drying times significantly, especially for black.

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On Press

Storage and Handling: As for all papers, avoid exposing SHINE to extreme humidity or temperature conditions, and keep in the original mill wrapping as long as possible prior to use.

Fountain Solution: When printing on SHINE, it may be helpful to increase the alcohol substitute, using more than one would use when printing on conventional papers. This may allow the printer to run up more ink on SHINE, thus making colors more vibrant.

Spray Powder: Spray powder may be used to prevent offsetting; a coarse particle size is recommended. Stack in small lifts, as some airing of the stack will be beneficial for ink drying.

Finishing

Varnish & Aqueous Coating: While SHINE may be varnished or aqueous coated, please keep in mind that any varnish or coating will likely alter SHINE's luminous appearance. Varnishing or aqueous coating SHINE after printing, as for any paper, can help to protect and seal the printed area, especially for projects where finishing is complex.

Foil Stamping: SHINE foil stamps beautifully.

The success of foil stamping on any substrate depends on pretesting. The printer should consult a foil-stamp supplier, and pretest on the actual stock to be used, as a wide range of variables (types of foils, complexity of the design, pressure, environment, etc.) all determine the success of foil stamping on any stock.

The first step is to decide what sort of foil effect you want, in terms of color and finish. By showing the foil supplier a sample of the substrate you wish to use, and the foil coverage you hope to achieve, he should be able to determine the best foil and release to use. Then, the printer and foil supplier should identify the correct release, thickness, and pressure to ensure that the foil will work well on the specified substrate. An essential part of this process is pretesting on the actual stock to be used.

A foil that works on one paper is not necessarily going to work on a different type—nor should it be expected to do so. Likewise, a lightweight stock may require an easier release than a heavier weight of the same paper.

Scoring & Folding: All SHINE weights (80# text, 92# cover, 107# cover and 137# cover) should be scored prior to folding to ensure the best fold. As for all papers, folding with the grain direction is preferred. We recommend a rounded channel score with a minimum width of 2.5 times the caliper of the sheet.

Binding: Binding should always run parallel to the grain direction. (For extensive information on the importance of grain direction in binding, please refer to our Paper Terms page.)

Glue/Adhesive: Though SHINE is a specialty paper, standard, water-based glue will work just fine. Hot-melt glue is also suitable, but is more expensive, and standard glue will likely provide a better, smoother lay down. If using adhesive tape, two 3M brand formulations are commonly used. Printers we have consulted tell us they use the stronger of the two for pocket folders and other cover applications. (The less expensive tape seems to perform fine initially, but tends to pull apart easily when something is placed in the pocket.)

As for any secondary print or finishing process, if gluing over a printed area, other variables come into play. It is always best to glue an unprinted/unvarnished area; if it will be necessary to glue over a printed area, please ensure that the inks used are wax free.

Please contact us if you have any questions about the Printing and Use information included here, or need information about any other topics. SHINE is a specialty paper and, like any substrate, should be fully tested prior to use, especially if trying something for the first time.

We have endeavored to address most aspects of printing and use here; however, we do not accept liability for any errors or omissions. Should you have any questions, or need any additional information, please contact us at 718.748.6000.