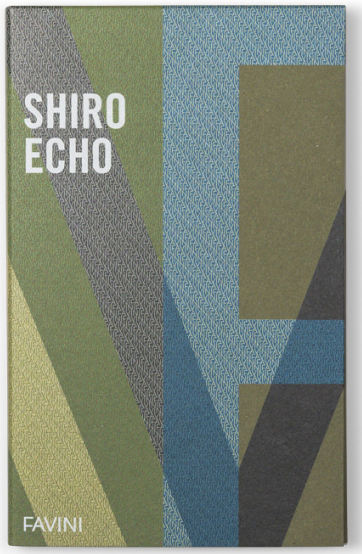
FAVINI

**e-mail:** rossano@favini.com
**Website:** www.favini.com

Technical Data Sheet | 11.11.2026

# SHIRO ECHO




## PRODUCT DESCRIPTION

Shiro Echo resets perceptions of 100% recycled paper not as a substitute product but as the desirable first choice for high end print and luxury packaging projects

Proudly FSC™ certified recycled credit system, highlighting its commitment to being both recyclable and biodegradable. Shiro Echo is made using electricity from certified renewable sources and supports the offsetting of unavoidable $CO_2$ emissions through Carbon Credits.

## TECHNICAL DATA

### THE FOLLOWING DATA REFERS TO SHIRO ECHO WHITE

| | METHOD | | +/- | 80 g/m² | 90 g/m² | 100 g/m² | 120 g/m² | 140 g/m² | 160 g/m² | 200 g/m² | 250 g/m² | 300 g/m² | 350 g/m² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BASIC WEIGHT | ISO 536 | g/m² | 5% | 80 | 90 | 100 | 120 | 140 | 160 | 200 | 250 | 300 | 350 |
| THICKNESS | ISO 534 | µm | 5% | 102 | 114 | 128 | 150 | 175 | 200 | 252 | 315 | 378 | 440 |
| BULK | ISO 534 | cm²/g | - | 1,28 | 1,28 | 1,28 | 1,25 | 1,25 | 1,25 | 1,26 | 1,26 | 1,26 | 1,26 |
| CIE WHITENESS | ISO 11475 | % | 4 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| ROUGHNESS (BENDTSEN) | ISO 8791-2 | ml/min | 50 | 240 | 240 | 240 | 240 | 240 | 240 | - | - | - | - |
| | | | 150 | - | - | - | - | - | - | 500 | 500 | 500 | 500 |
| OPACITY | ISO 2471 | % | - | >88 | >89 | >91 | >92 | >93 | - | - | - | - | - |
| MOISTURE CONTENT | ISO 287 | % | 1,0 | 5,5 | 5,5 | 5,5 | 6,0 | 6,0 | 6,0 | 6,5 | 6,5 | 6,5 | 6,5 |

### THE FOLLOWING DATA REFERS TO SHIRO ECHO BRIGHT WHITE

| | METHOD | | +/- | 90 g/m² | 120 g/m² | 140 g/m² | 160 g/m² | 200 g/m² | 250 g/m² | 300 g/m² | 350 g/m² |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BASIC WEIGHT | ISO 536 | g/m² | 5% | 90 | 120 | 140 | 160 | 200 | 250 | 300 | 350 |
| THICKNESS | ISO 534 | µm | 5% | 114 | 150 | 175 | 200 | 252 | 315 | 378 | 440 |
| BULK | ISO 534 | cm²/g | - | 1,27 | 1,25 | 1,25 | 1,25 | 1,26 | 1,26 | 1,26 | 1,26 |
| CIE WHITENESS | ISO 11475 | % | 4 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 |
| ROUGHNESS (BENDTSEN) | ISO 8791-2 | ml/min | 50 | 240 | 240 | 240 | 240 | - | - | - | - |
| | | | 100 | - | - | - | - | 500 | 500 | 500 | 500 |
| OPACITY | ISO 2471 | % | - | >89 | >92 | >93 | - | - | - | - | - |
| MOISTURE CONTENT | ISO 287 | % | 1,0 | 5,5 | 6,0 | 6,0 | 6,0 | 6,5 | 6,5 | 6,5 | 6,5 |

FAVINI

**e-mail:** rossano@favini.com
**Website:** www.favini.com

Technical Data Sheet | 11.11.2026

## THE FOLLOWING DATA REFERS TO SHIRO ECHO RAW SAND AND RAW GREY

| | METHOD | | +/- | 120 g/m² | 200 g/m² | 250 g/m² | 350 g/m² |
|---|---|---|---|---|---|---|---|
| BASIC WEIGHT | ISO 536 | g/m² | 5% | 120 | 200 | 250 | 350 |
| THICKNESS | ISO 534 | µm | 5% | 156 | 256 | 325 | 458 |
| BULK | ISO 534 | cm²/g | - | 1,30 | 1,28 | 1,30 | 1,31 |
| ROUGHNESS (BENDTSEN) | ISO 8791-2 | ml/min | 150 | 500 | 700 | - | - |
| | | | 200 | - | - | 1000 | 1100 |
| MOISTURE CONTENT | ISO 287 | % | 1,0 | 6,5 | 6,5 | 6,5 | 6,5 |

## THE FOLLOWING DATA REFERS TO SHIRO ECHO RAW GREEN, RAW RED, RAW ANTHRACITE AND RAW BLUE

| | METHOD | | +/- | 120 g/m² | 250 g/m² | 350 g/m² |
|---|---|---|---|---|---|---|
| BASIC WEIGHT | ISO 536 | g/m² | 5% | 120 | 250 | 350 |
| THICKNESS | ISO 534 | µm | 5% | 156 | 325 | 458 |
| BULK | ISO 534 | cm²/g | - | 1,30 | 1,30 | 1,31 |
| ROUGHNESS (BENDTSEN) | ISO 8791-2 | ml/min | 150 | 500 | - | - |
| | | | 200 | - | 1000 | 1100 |
| MOISTURE CONTENT | ISO 287 | % | 1,0 | 6,5 | 6,5 | 6,5 |

## THE FOLLOWING DATA REFERS TO SHIRO ECHO RAW BLACK

| | METHOD | | +/- | 120 g/m² | 200 g/m² | 250 g/m² | 350 g/m² |
|---|---|---|---|---|---|---|---|
| BASIC WEIGHT | ISO 536 | g/m² | 5% | 120 | 200 | 250 | 350 |
| THICKNESS | ISO 534 | µm | 5% | 160 | 260 | 330 | 463 |
| BULK | ISO 534 | cm²/g | - | 1,33 | 1,30 | 1,32 | 1,32 |
| ROUGHNESS (BENDTSEN) | ISO 8791-2 | ml/min | 150 | 500 | 700 | - | - |
| | | | 200 | - | - | 1000 | 1100 |
| MOISTURE CONTENT | ISO 287 | % | 1,0 | 6,5 | 6,5 | 6,5 | 6,5 |

NB. At times slight differences may occur in paper shade and look as a result of the use of recycled materials.

Special makings are available upon request.

# FAVINI

**e-mail:** rossano@favini.com
**Website:** www.favini.com

Technical Data Sheet | 11.11.2026

RECYCLABLE | BIODEGRADABLE | 100% SELECTED RECYCLED FIBRES | FREE ACID | REACH COMPLIANT | EN71 SAFETY TOYS | 94/62 EC HEAVY METAL COMPLIANT | 25/40 EN PPWR COMPLIANT | PCF PROCESS CHLORINE FREE PULP | 21 PAP | 22 PAP

REFERS TO SHIRO ECHO RAW BLACK

FREE CARBON BLACK

FSC www.fsc.org RECYCLED Paper made from recycled material FSC® C001810

100% Renewable Energy

SCB

PAPER COMPENSATED THROUGH "THE BRAZIL NUT FORESTS OF MADRE DE DIOS" REDD+ PROJECT

## PRINTING AND FINISHING RECOMMENDATIONS

Due to its content and the nature of 100% recycled fibres, Shiro Echo can be characterized by the presence of dots and by slight variations in shade.

**INKS**
To ensure good drying, Shiro Echo should be printed with fresh or semi-fresh inks; for heavier graphic elements, we recommend to use oxidizing inks.

**BLANKETS**
For a good graphic impression, use compressible blankets.

**DRYING TIME**
Drying times may vary according to the type of processing. For heavier graphic elements and higher densities, sufficient powder should be applied.

**PRINTABILITY AND RUNNABILITY**
Every method of printing, embossing, punching, die cutting, creasing, laminating, UV varnishing and silk screen is possible.

**DIGITAL PRINTING**
Suitable for digital printing. Not suitable for HP Indigo printing unless specifically stated.

**NOTE**
Due to its hygroscopic nature, paper can show curl issues if not conditioned properly.
To avoid any issue, we recommend to store the paper closed in its original wrap inside the printing area for at least 24-48 hours.
After this conditioning time, the wrapping can be open and the paper can be utilized.

For particular processes we recommend to carry out proofing trials, if required Favini's technical department remains available for any support.

*> Please contact our technical department for further suggestions.*

## **MILL ACCREDITATION** | Rossano Veneto VI - Italy

**CORPORATE QUALITY MANAGEMENT STANDARD** | UNI EN ISO 9001

**ENVIRONMENTAL MANAGEMENT STANDARD** | UNI EN ISO 14001

**OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT STANDARD** | UNI EN ISO 45001

**ECO-MANAGEMENT AND AUDIT SCHEME CE 1221/2009** | EMAS

**We care about the environment: www.favini.com/en/sustainability**