EST.1845

# PORCELAIN

with PaperGard™

TARGET SECTOR
Graphic Print

## TECHNICAL SERVICES DOCUMENT

JAMES CROPPER

MANUFACTURED IN GREAT BRITAIN

# PORCELAIN

## with PaperGard™

An exceptionally smooth white graphic board which offers an excellent printing surface.

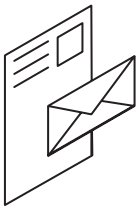
It is manufactured using a twin-wire process to create a smooth and even surface on both sides of the board.

This silky smooth board is available from stock with PaperGard™ silver ion product protection. Acid free.

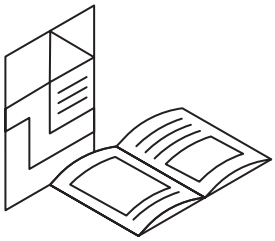
FibreBlend
UPCYCLED TECHNOLOGY

### APPLICATIONS

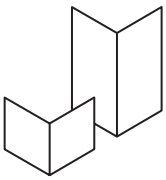
Porcelain has been developed with the end application in mind. Our range of weights are well suited for various stationery requirements. Of course, there is no limit to how our papers can – and have – been used.



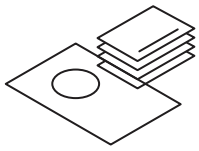
100 GSM
BUSINESS STATIONERY AND REPORTS



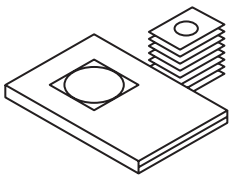
250 GSM
CORPORATE LITERATURE



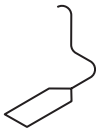
300 GSM
GREETINGS CARDS



330 GSM
MENUS AND CERTIFICATES



350 GSM
PRESENTATION FOLDERS
AND BUSINESS CARDS



400 GSM
GARMENT TAGS

### PRINT SUITABILITY

- Dry Toner
- Digital
- Flexography
- Foil Blocking
- Letterpress
- Lithography
- HP Indigo version available
- Silkscreen
- Die Cutting
- Blind Embossing
- Laser Cutting

## HOW EFFECTIVE IS SILVER ION TECHNOLOGY ON PAPER?

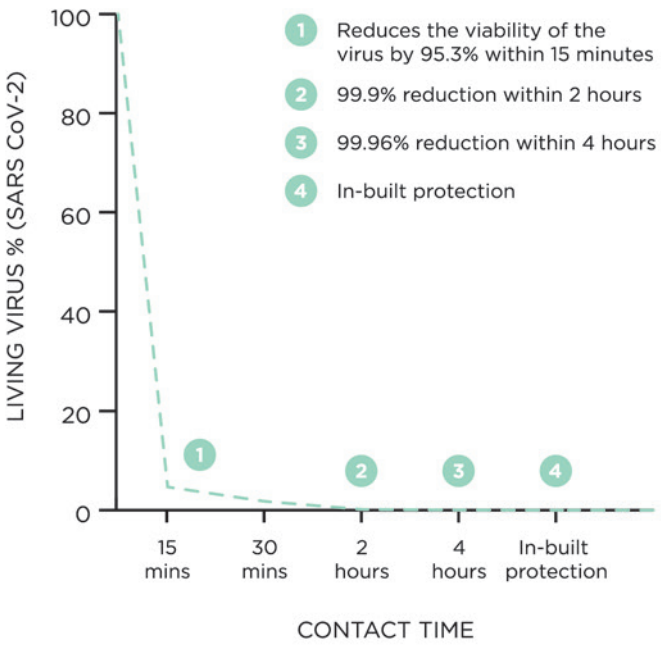
The latest testing with SARS Cov-2 (the COVID-19 virus), using the ISO 18184 testing method to determine anti-viral activity, shows papers containing the PaperGard™ technology were proven effective at reducing the viability of the viral strain by over 95% in just 15 minutes.

In tests and clinical trials PaperGard™ with Biomaster has been proven to reduce the overall level of MRSA and E.Coli bacteria on the paper surface by up to 99.99% using the ISO 20743 testing method to determine anti-bacterial activity conducted in an independent, internationally recognised laboratory.

## CAN SILVER ION TECHNOLOGY SAFEGUARD AGAINST CORONAVIRUS?

We have data showing that PaperGard™ (>95% inactivation within 15 minutes) is highly effective against SARS Cov-2, the virus responsible for Covid-19, on the paper surface.

PaperGard™ anti-microbial technology is effective 24/7 for the lifetime of the treated article. PaperGard™ can therefore complement current hygiene guidance offering additional product protection.




## WHAT CAN SILVER TREATMENT PROTECT AGAINST?

Independent laboratory tests have proven the technology to inhibit the growth of bacteria and viruses including:

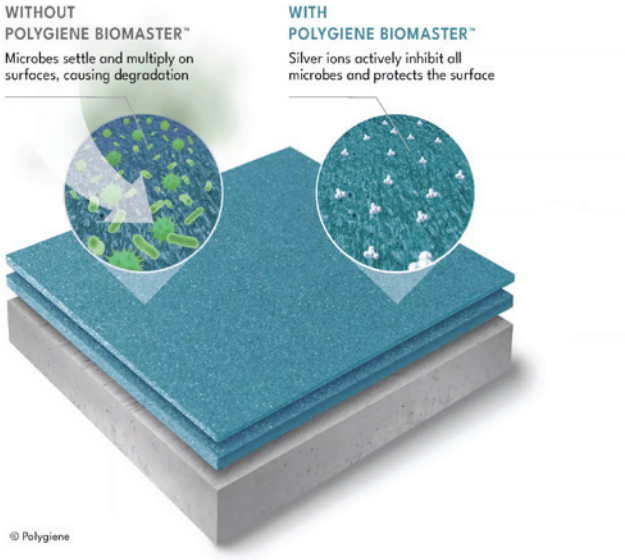
- Staphylococcus aureus (MRSA)
- Salmonella
- Legionella
- Campylobacter
- E.coli
- Vancomycin-resistant Enterococcus (VRE)
- Norovirus
- Feline Coronavirus
- SARS Cov-2

## WHAT IS THE SCIENCE BEHIND PAPERGARD™ PAPER?

Unlike antibiotics, micro-organisms are unable to build up a resistance to the way in which silver ions disrupt their growth.

1. Silver ions bind to the cell wall of the micro-organism; preventing growth
2. Silver ions interrupt enzyme production; stopping the micro-organism producing energy
3. Silver ions interrupt the cell's DNA; preventing DNA replication and new cell formation

**POLYGIENE BIOMASTER™**




## HOW LONG IS THE TREATMENT EFFECTIVE FOR?

The silver ion treatment in PaperGard™ is effective for the life of the product, it is built into the paper during manufacture and it cannot be removed with any amount of wear and tear. It becomes an integral part of the material.

## DOES THE TREATMENT AFFECT A PRODUCT IN ANY WAY?

No. You can't see, smell or even taste it!

## WHAT HAPPENS IF I OVER-PRINT THE PRODUCT?

Print with minimal surface coverage is absolutely fine. For complete over-printing or overall coating with a varnish we recommend the addition of the treatment into the print or varnish itself. Together with Biomaster we can provide recommendations and solutions for specific conversion processes.

## HOW DO I KNOW MY PRODUCT HAS PROTECTION?

You can rest assured that when you stipulate PaperGard™ treatment on your product, there is a chain of custody in production to verify the legitimacy of our material.

If required, certification can be organised via an independent laboratory.

## WHAT IS CORONAVIRUS?

According to the World Health Organization, Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV).

The 2019 Novel Coronavirus (COVID-19) is a new strain of coronavirus that was first identified during an investigation into an outbreak in Wuhan, China.

## TECHNICAL DATA

| | | | | | | | Tolerance |
|---|---|---|---|---|---|---|---|
| Grammage: | 100 gsm | 250 gsm | 300 gsm | 330 gsm | 350 gsm | 400 gsm | +- 5% |
| Thickness µm: | 112 | 250 | 300 | 330 | 350 | 410 | NOMINAL |
| Bendtsen Smoothness ml/min: | 80 | 80 | 80 | 100 | 100 | 100 | EXPECTED |
| CIE Whiteness: | 158 | 158 | 158 | 158 | 158 | 158 | +- 10% |
| Rel. Humidity: | 6 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | TARGET |
| Cobb (1 min) g/m: | 25 | 30 | 30 | 30 | 30 | 30 | TARGET |
| Dennison Wax Pick / Clear: | 16 | 16 | 16 | 16 | 16 | 16 | EXPECTED |

## ENVIRONMENTAL CREDENTIALS

FULLY RECYCLABLE

CHP RECYCLING ENERGY

ELEMENTAL CHLORINE FREE

REACH COMPLIANT (EC NO 1307/2006)

FSC www.fsc.org FSC® C009165

The mark of responsible forestry

## SHEET SIZES AND WEIGHTS

| Sizes mm (LG) | 100 gsm | 250 gsm | 300 gsm | 330 gsm | 350 gsm | 400 gsm |
|---|---|---|---|---|---|---|
| 450 x 320 | | | * | * | * | |
| 450 x 640 | * | * | * | * | * | * |
| 700 x 1000 | | | * | * | | |

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