

# SALES BROCHURE

FP<sup>®</sup>  
PIGMENTS

## FP-300

CATIONIC PORTFOLIO



SCAN ME



July 2025

Version 2.2

# Cationic products

**FP-300**

**FP-300CS**

**FP-300IQ PRO**

**FP-300IQ COAT**



*Our newest development, FP-300, is a cationic specialty pigment for various paper applications. Composed of our ultra-pure precipitated calcium carbonate, this product is the cationic version of our spherical and porous FP-365 specialty pigment.*

*The dry pigment, FP-300, is the main raw material in all liquid products in our cationic portfolio. In addition to the dry pigment itself, the portfolio contains three different grades used in pigmentation and precoating applications.*

### **FP-300CS**

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Our commercial cationic slurry is manufactured with the most advanced dispersing technology, ensuring excellent rheological properties, machine runability and product stability. The slurry is stabilised for a guaranteed shelf-life of three months and is delivered at 40% solids.

### **FP-300IQ PRO**

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This density boosting additive was developed to maximise inkjet printability. Usually combined with starch during surface sizing, this formulation is intended for light pigmentation of paper. Due to its unique properties, you will see sharper images and higher contrast with surprisingly low addition levels.

### **FP-300IQ COAT**

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This product is a ready-to-use cationic coating colour which is normally used in pigmentation and primer coating applications. In addition to obvious boost in flexo and offset printability, it also improves burst, folding and bonding strength in paper and board applications.

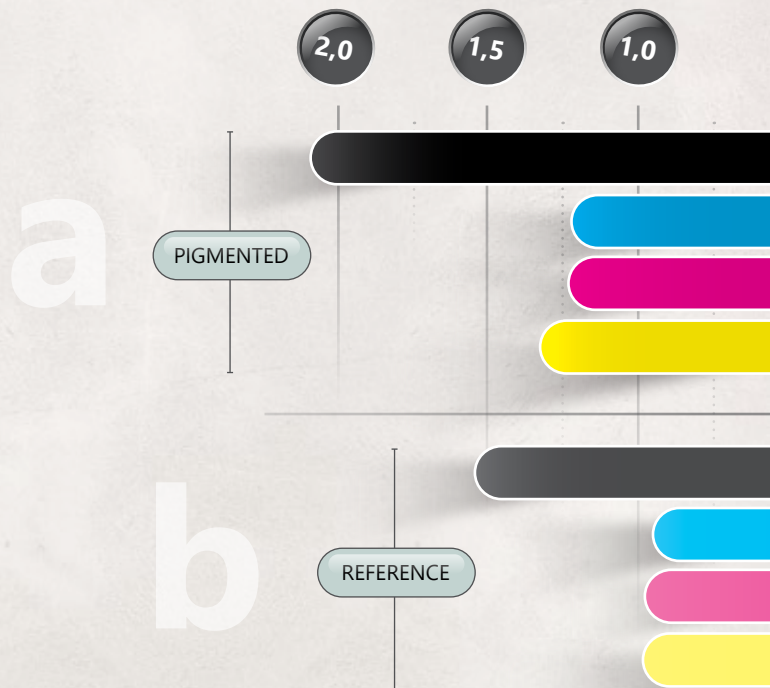
## No trade offs for better printability

Base paper:	Bleached virgin fibre
Standard treatment:	100% starch
Tested treatment:	50% IQ PRO / 50% starch
Amount:	0,8 gsm total (dry)

In this study, we tested our cationic pigmentation on a commercial office paper in need of better inkjet printability. The standard treatment (reference) consists of surface sizing with starch. Our improved recipe (pigmented) replaced half of the starch with our cationic additive, FP-300IQ PRO.

As shown on the right, even a very low pigmentation level (0,4 gsm) can clearly enhance (+30%) the ink densities in inkjet printed paper. Since the inks remain on top of the paper surface, there is clearly less disturbing print-through seen on the back of the printed sheet. In addition to improved **opacity** and increased **brightness**, another benefit of our ready-to-use

formulation is, in fact, a chain of positive changes: Improved smoothness (+20%) enables a reduction in calendering which in turn improves the paper's bulk and stiffness. This can even help you to lower the basis weight so that you can offer your customers a higher yield: **Lower ink demand and more printable square meters for the same weight.**



Graph 1: Measured ink densities after surface sizing with  
 a) 0,4 gsm 300IQ PRO/0,4 gsm starch and b) 0,8 gsm starch





## Inkjet paper

Our cationic portfolio is built around the FP-300 pigment; a spherical and porous pigment. FP-300IQ PRO is a ready-to-use formulation which we have optimised for the production of inkjet printable paper. The product guarantees sharper dots, higher densities and quick ink setting even in commercial

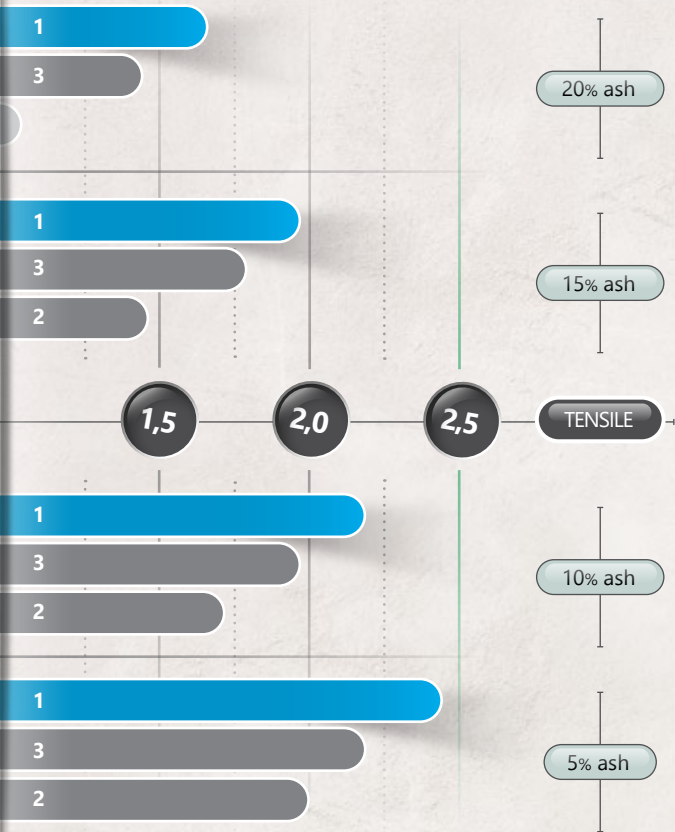
high-speed inkjet applications. The benefit of this product is that it eliminates the need for a separate coating colour preparation. Instead, you just combine the product with starch during surface sizing; **the easiest way possible to produce high-quality inkjet paper.**

## Recycled paper

Recycled fibre is a sustainable and necessary component in many paper and board grades. Even though the source and quality of the recycled content gives a baseline for many key properties, it's possible to improve the final product with our cationic pigments. For

instance, once added into the furnish, dry FP-300 pigment can effectively improve the brightness and bulk of the final paper. Alternatively, you can apply a precoat of 300IQ COAT to boost the strength properties in liner board applications.





Graph 2: Tensile strength (kN/m) at different ash levels

## All good things come to a wet end

Base paper:	Bleached virgin fibre, 55 gsm
Test filler 1:	FP-300CS Slurry
Test filler 2:	Calcined Clay
Test filler 3:	Ground Calcium Carbonate
Ash content:	5% / 10% / 15% / 20%

This test shows the physical and optical benefits of FP-300CS in filling applications. Using a commercial furnish from a paper mill, we tested three different filler pigments at four different filling levels. After drying and conditioning, **tensile strength**, **opacity** and **brightness** values of the paper were measured.

Graph 2 on the left shows the tensile strength values at four different filler levels. The tensile strength of the unfilled blank sheet (2,9% ash) was at 2,5 kN/m. Based on the measured data, our cationic FP-300CS excels at maintaining the maximum **tensile strength**, achieving by far the highest strength values at all four ash content levels. Simultaneously, the cationic FP-300 pigment in our slurry acts as an **effective opacifier** and exceeds even the high opacity given by calcined clay. In addition to clear improvements in **strength** and **opacity**, our pigment guarantees significantly higher (+3%) **brightness** levels when compared to paper filled with calcined clay.

# ecovadis

*As in 2020, FP-Pigments was once again granted the Silver Recognition Level in the **EcoVadis** Corporate Social Responsibility rating.*

Ranking corporations in terms of environmental and social performance, **Ecovadis** is a globally accredited measurement tool for sustainability.

EcoVadis is a trusted provider of business sustainability ratings, intelligence and performance improvement tools for global supply chains. The easy-to-use sustainability scorecards provide insight into environmental, social and ethical risks.

In 160 countries, there are over 75,000 businesses on the EcoVadis network. They all work with a single methodology to evaluate and improve their own sustainability performance.



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# WHO YOU CAN CALL...

