



FIRST CHOICE

FOR A BRIGHTER LIFE



"KRONOS 9900 Digital White"

Water based pigment concentrate for
digital printing inks

Juergen Bender
Dirk Imhof

KRONOS – The Company



KRONOS Worldwide, Inc. is a leading global producer and marketer of value-added titanium dioxide pigments (TiO_2), a basic industrial product used in a wide range of applications.

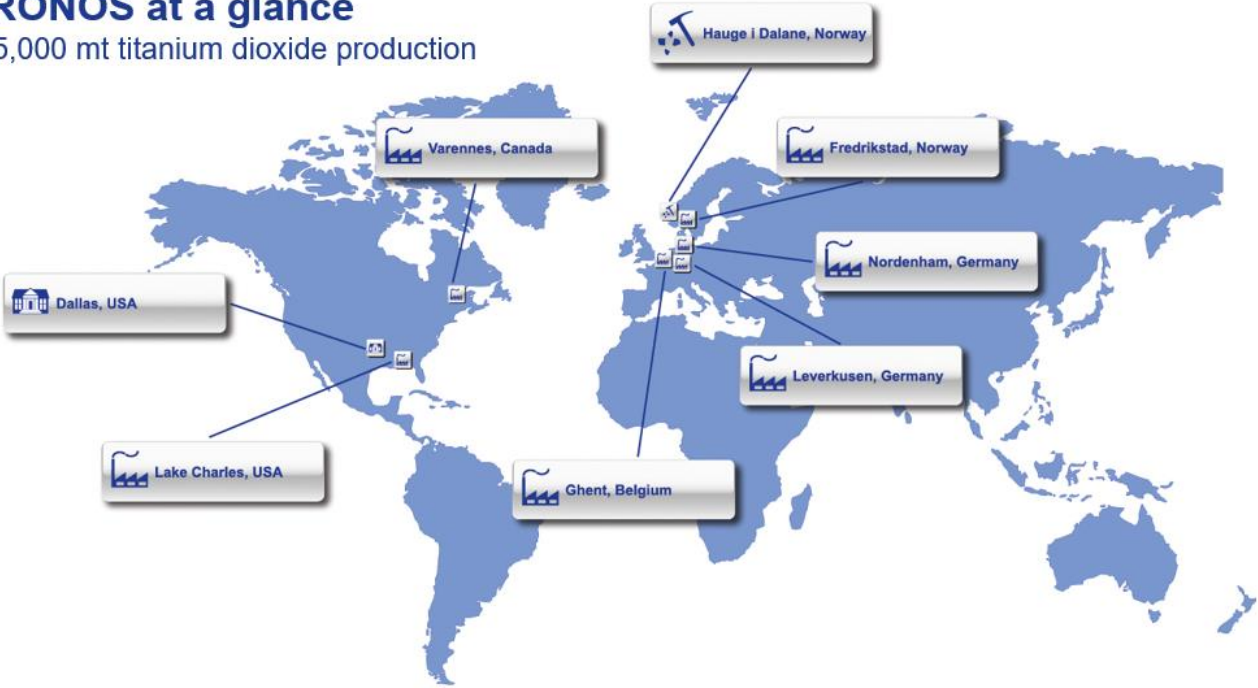
- KRONOS was the first company worldwide to produce TiO_2 pigments, dating back to 1916
- Inventor of the rutile process
- Over 100 years of expertise and grown know how
- Full TiO_2 portfolio of anatase and rutile pigments, sulphate and chloride processes, powder pigments and pigment dispersions
- Strong patent and trademark position



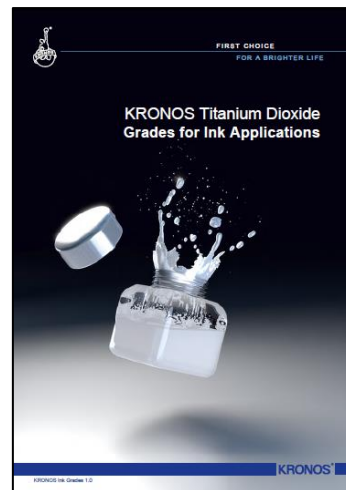
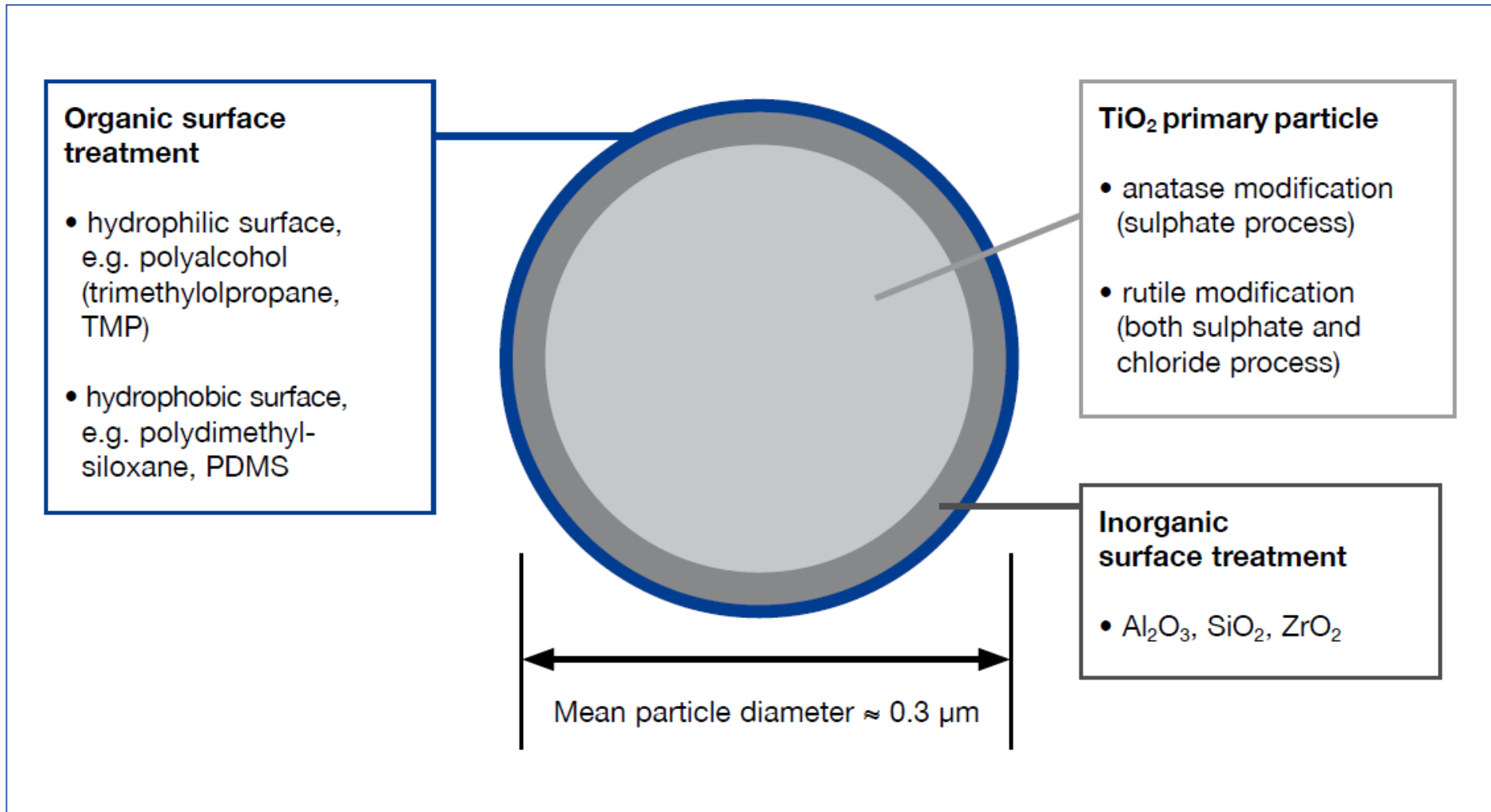
KRONOS Overview



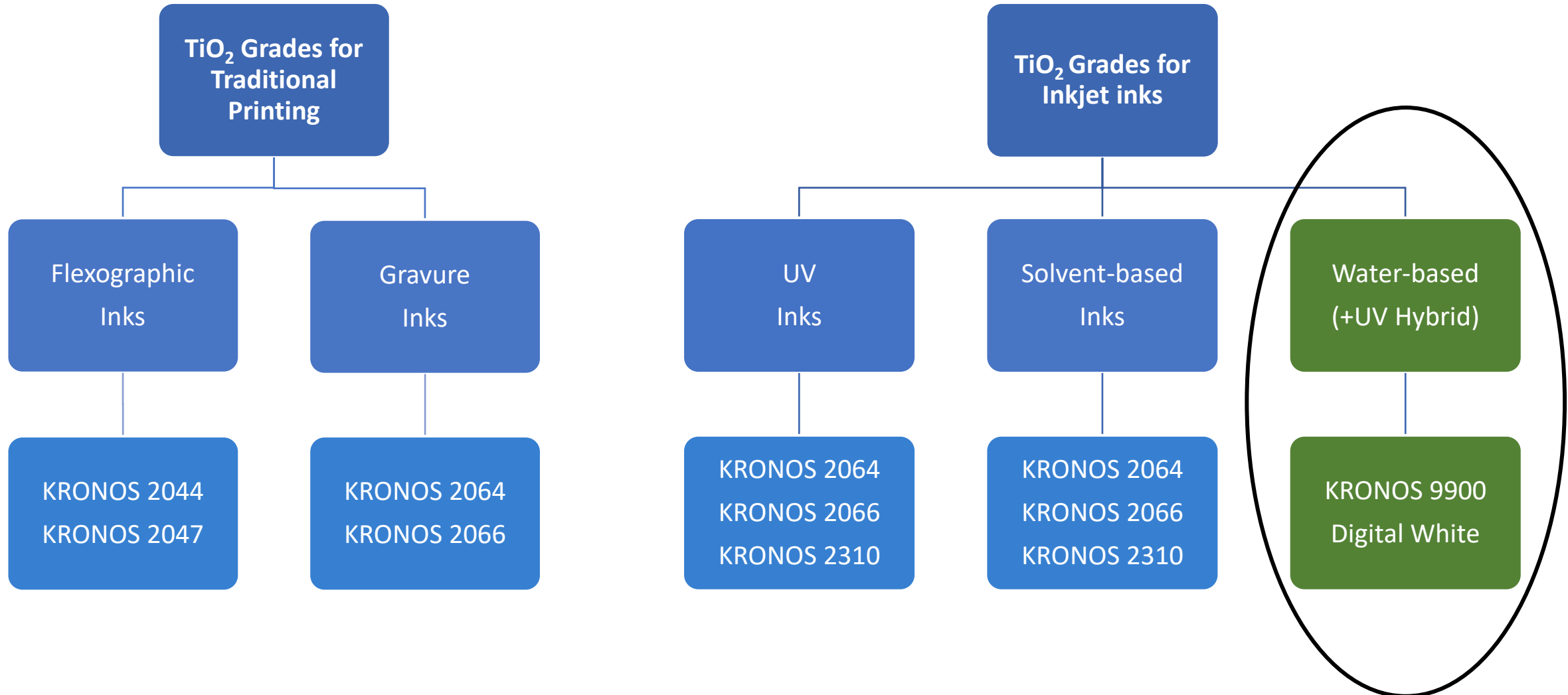
KRONOS at a glance
575,000 mt titanium dioxide production



Design of a TiO₂ Pigment Particle



KRONOS Product Portfolio for Printing Inks



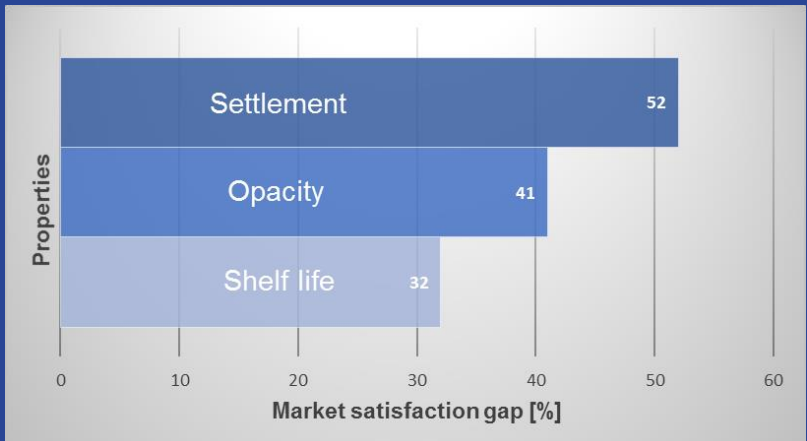
Customer Requirements

Achieving satisfying optical properties with white water-based inkjet inks is a demanding challenge!

→ low ink viscosity vs. high pigment density

→ Stability is the key

There is a strong customer need for solutions!



Market Satisfaction Gap: Importance*(10-Satisfaction)



Our solution !



KRONOS 9900 Digital White

- A tailored aqueous pigment concentrate specially designed for inkjet inks
- Manufactured using proprietary processing solution to ensure best stability



Key Features

- #1 Exhibits excellent anti-sedimentation properties and storage stability
- #2 Ensures short filtration times of Inkjet Inks
- #3 Superior highest whiteness and opacity in prints



KRONOS 9900 Digital White

KRONOS 9900 Digital White is the newly developed aqueous pigment concentrate for digital printing. It addresses the need in inkjet applications for highest stability in bottle, drum, printhead, in flight and on substrate.

Key Attributes

- ◆ Excellent **storage stability** due to its **anti-sedimentation** properties
- ◆ Superior **opacity** in prints
- ◆ Provides short filtration times of inkjet inks
- ◆ Chloride pigment base providing highest **whiteness** and bluish tone
- ◆ Dust-free ready-to-use pigment concentrate
- ◆ Supports the required rheological performance in inkjet inks
- ◆ Wide compatibility with various types of ink binders (e.g. PU and Acrylic) and additives
- ◆ Good weather resistance
- ◆ Compliant with Swiss Ordinance and Nestlé guidance regulatory.



Applications

- ◆ Water based inkjet inks
- ◆ Hybrid (water/UV) inkjet
- ◆ Any other aqueous applications, where a low coarse particle content and high stability are beneficial key attributes.

Packaging of KRONOS 9900



Sample Size: 1L



15L Drum (23 kg)
-> single drum
-> one palett: 9 x 15L



600L (950 kg) IBC- container

**Any
Questions ?**



Juergen Bender
Market Development Manager
juergen.bender@kronosww.com
+ 49 214 356 2542

Dirk Imhof
Technical Manager
dirk.imhof@kronosww.com
+ 49 214 356 2275

[KRONOS Ink Grades - Kronos Innovation \(kronostio2.com\)](http://kronostio2.com)