

**VENATOR**

# Titanium dioxide (TiO<sub>2</sub>) pigments

Innovative ingredients for quality cosmetic  
and skin care products



# Titanium Dioxide Pigments for Quality Cosmetics

Explore our range of high-quality titanium dioxide (TiO<sub>2</sub>) pigments and innovative ingredients for cosmetics and skin care. Our products ensure exceptional coverage, opacity, and radiance, providing a flawless finish for make-up, beauty, and personal care products.

## Features:

- ▶ Organic, non-organic, and hypoallergenic options
- ▶ Improved formulation performance
- ▶ Exceptional visual effects and aesthetic appeal
- ▶ Transparent TiO<sub>2</sub> for UV protection

## Applications:

- ▶ Skin care
- ▶ Make-up
- ▶ Oral health products

Discover the versatility of our TiO<sub>2</sub> pigments and elevate your cosmetic formulations today!

## Low Nano TiO<sub>2</sub> Pigments:

- ▶ HOMBITAN® AFDC101 and HOMBITAN® AC301
- ▶ Controlled crystal growth for precise formulation needs
- ▶ Enhanced Crystal Size Controlled Technology
- ▶ Superior opacity and warm white undertone

## Nano-sized UV-Filters:

- ▶ TiO<sub>2</sub> particle sizes from 10nm to 700nm
- ▶ Stable, broad-spectrum protection
- ▶ Customizable inorganic and organic treatments

## Our extensive portfolio

### High purity products

| Product                           | INCI                                                                                                             | Principal characteristics                                                                      | Typical applications                                                                                                           |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| HOMBITAN®<br>AFDC101<br>(Anatase) |  Titanium dioxide             | High purity product with reduced amount of fine and coarse particles with enhanced opacity     | Highly recommended for use in the fields of cosmetics, food and pharmaceutical applications                                    |
| HOMBITAN®<br>ACD201<br>(Anatase)  |  Titanium dioxide             | Pure white product (with excellent opacity, high purity bluish undertone), dispersible in oils | Used, in particular, as an excipient in pharmaceuticals applications (e.g. capsules and tablet coatings) and colored cosmetics |
| HOMBITAN®<br>AC301<br>(Anatase)   |  Titanium dioxide,<br>Alumina | Product with good color stability and excellent opacity                                        | Amphiphilic multipurpose grade, suitable for customized applications in high-end colored cosmetics                             |



Water dispersibility



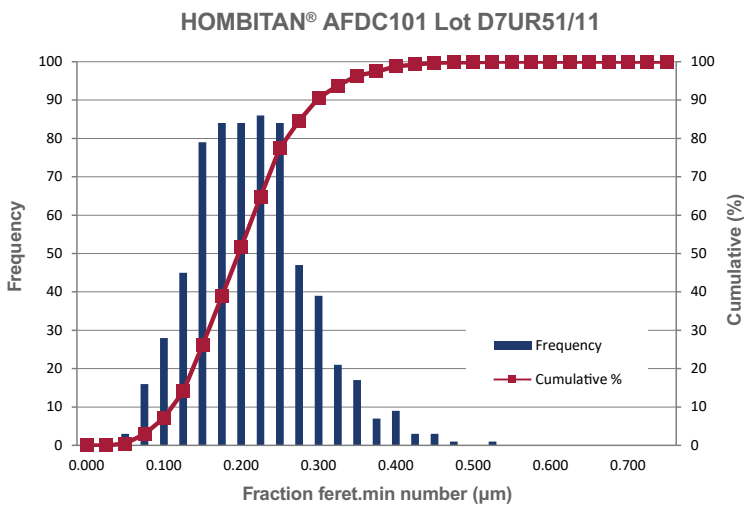
Oil dispersibility



Amphiphilic

HOMBITAN® AFDC101 has a proven nano particle fraction of less than 10% by number (<0.5% by mass) distribution\* - the lowest nano threshold of an anatase pigment in the TiO<sub>2</sub> industry.

HOMBITAN® AFDC101 is the perfect solution for proactive formulators that want to source a high quality, low nano TiO<sub>2</sub>. With a particle distribution that sits way below current labeling requirements, cosmetic and beauty companies can be confident that their product will continue to comply with standards as they tighten over time.



| Parameter                               | Result |
|-----------------------------------------|--------|
| X10 feret.min number (µm)               | 0,113  |
| X50 feret.min number (µm)               | 0,179  |
| X90 feret.min number (µm)               | 0,303  |
| Q0<100nm feret.min number (%)           | 7      |
| SSA (m <sup>2</sup> /g)                 | 6,4    |
| Density (g/cm <sup>3</sup> )            | 3,9    |
| VSSA (m <sup>2</sup> /cm <sup>3</sup> ) | 25,0   |

Our work in the field of ultra-low nano TiO<sub>2</sub> continues. By using our patented Enhanced Crystal Size Technology, a new HOMBITAN® grade for cosmetic industry – HOMBITAN® AC301 has been launched. HOMBITAN® AC301 is an amphiphilic multipurpose grade, suitable for customized applications in high-end cosmetics.

\* The nano content of <10% nanoparticles by number is calculated by using scientifically proven correlation between SEM (Scanning Electron Microscopy) measurements and a physical method.





## Enhancing beauty products for a sustainable future

At Venator, sustainability isn't just a commitment – it's embedded in everything we do. As a trusted supplier of high-performance titanium dioxide (TiO<sub>2</sub>) pigments, we are focussed on helping our customers meet evolving regulatory, environmental, and consumer demands while reducing our own environmental footprint.

Our dedication to sustainability has been recognized with the prestigious Gold rating from EcoVadis, highlighting our commitment to environmental stewardship, social responsibility, and ethical practices. This accolade reinforces our efforts to advance cosmetics that contribute to a greener future, ensuring we meet the highest standards and continue to innovate for a more sustainable world.

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Venator is a global leader in the manufacturing of pigments and performance additives, specialising in Titanium Dioxide (TiO<sub>2</sub>). We bring innovation to the world of cosmetics with our high-performance TiO<sub>2</sub> pigments – helping brands create products that are as effective as they are beautiful. Headquartered in Wynyrd, U.K., Venator employs approximately 2,300 associates and sells its products in more than 109 countries.

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