



HARKE

Pharma & Nutra

Alternatives to Titanium Dioxide

For Pharmaceutical & Nutraceutical Applications



Pharma

YOUR BENEFITS

- ▶ Titanium Dioxide free formulations
- ▶ Non-genotoxic
- ▶ Opacifying and whitening properties
- ▶ Synergistic effects for your coating formulation

YOUR DOSAGE FORM EXPERTS



TiO₂ free coating formulation

Replacing Titanium Dioxide – why is it important?

- Titanium Dioxide/TiO₂ (E171) is considered genotoxic, since genotoxicity could not be ruled out and a safe daily intake could not be established.
- The EFSA has updated its safety assessment of TiO₂ to “no longer considered safe as a food additive”.
- TiO₂ can be easily replaced by Talc Micro Ace P-3, Omya Calcipur® or galenIQ™ 720 for pharmaceutical and nutraceutical applications.

Talc Micro Ace P-3

- Whiteness of >95%
- Opacifying properties
- High specific surface area for lower Talc inclusion levels in coating formulations
- Asbestos free
- Absence of black particles
- Anti tacking properties

Omya Calcipur®

- Natural Calcium carbonate from marble
- Approved for nutraceutical applications
- Opacifying properties
- High specific surface area for lower Calcipur® inclusion levels in coating formulations
- Sustainable
- Cost-effective
- Brightness CIELAB - L 98.5

galenIQ™ 720

- Improves gloss of coating
- Non-ionic character
- Organic-free coating solutions possible
- Approved for nutraceutical applications
- Safe and sustainable coating process

More possibilities: the right polymer

- Hypromellose (HPMC)
- Gohsenol™ EG (PVA)
- Polyglykol (PEG)



Tabletting



Coating

