

Ashland presents solutions for TiO₂-free coating systems

The recent technical note issued by the National Health Surveillance Agency (ANVISA, nº30/2021) on the possible restriction of the use of titanium dioxide in food supplements, together with the conclusion of the European Food Safety Authority (EFSA) that the dioxide of titanium can no longer be considered safe as a food additive, accelerate the need for TiO₂-free coating systems for solid oral forms in food supplements.

Ashland accepted this challenge and has the solution!

To address this issue, Ashland has developed alternatives to replace titanium dioxide in coating systems of oral solid forms in food supplements.

In order to obtain desirable properties in a TiO₂-free coating, such as color uniformity, surface roughness and tablet gloss, not only choosing an appropriate formulation crucial, but also dispersion preparation and adaptation of the coating process parameters are critical for a successful TiO₂-free coating. Aquarius™ TF coating systems, **formulated without TiO₂**, feature a white or colored film coating comparable to existing titanium dioxide coatings, ensuring that differences between these systems are not apparent.

It is known that, currently, there is no substitute for TiO₂ that has exact opacity performance, however, a case study shows that tablets coated with white Aquarius™ Prime TF resulted in tablets with an appearance comparable to white film coatings based on titanium dioxide, with low surface roughness, high gloss and good color uniformity, exhibiting good light stability, with greater brightness and whiteness visually compared to other TiO₂-free coating systems available on the market.

Ashland is supporting its customers in the development of TiO₂-free solutions. Ask us about our Aquarius™ TF coating systems.

Get in touch with our *solvers*! contato.pharma@ashland.com