

OPADRY® TF, TiO₂ Free Formulated Film Coatings

To address the concerns regarding the use of titanium dioxide (TiO₂), Colorcon confirms that a range of alternative formulations using a range of colorants, including non-synthetic pigments and iron oxides are available as **Opadry® TF, TiO₂ Free Formulated Film Coatings**.



Although there are no direct alternatives, with the same opacifying and pigment properties as TiO₂, Colorcon can provide formulations with substitute materials suitable for most coating applications. Many pigments have moderate to good opacity on their own and applying a coating to a light color substrate coating formulation can result in excellent coverage without the use of any opacifier. In many cases these colors will be brighter and more vibrant than if combined with opacifiers.

Elimination of TiO₂ provides manufacturers with an alternative coating finish that satisfies aesthetic appeal while addressing current market and consumer concerns.

Opadry TF coatings:

- Ensure a superior finish appealing to consumers
- Provide efficient and reproducible manufacturing performance
- Can be developed using a range of colorants
- Meet market needs for titanium dioxide-free film coating alternatives

For decades, TiO₂ has been used as a pigment and opacifier in film coating formulations providing a wide color palette and excellent consistency. For some applications, substitution may not provide the types of properties needed to achieve the final colors desired. It can also be challenging to match existing formulations that utilize TiO₂ with alternative materials. However, with Colorcon's extensive regulatory and technical knowledge, you can be assured that the closest color alternative will be formulated to meet your functional and market needs.

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Colorcon provides an extensive color palette that can be achieved for TiO₂ Free formulations. Our Global Regulatory Team are available to provide support to customers during any re-registration filings that may be needed

To learn more, contact your local Colorcon Representative, or simply select the film coating you are interested in and [contact Colorcon for a sample](#).

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