



Ti-Pure™
Titanium Dioxide

Life Cycle Assessment/Carbon Footprint: Ti-Pure™ Titanium Dioxide Pigment

Chemours sustainability efforts are grounded in enabling better lives for more people, in ways that are safe and have a lower impact on our planet. Our values—“customer centered, refreshing simplicity, collective entrepreneurship, safety obsession, and unshakeable integrity” are all aligned with sustainable business operation, see <https://www.chemours.com/our-company/values/>.

The Titanium Technologies (TT) business has been involved in exciting initiatives aimed at crafting the necessary building blocks and compiling an industry representative average for comprehensive environmental footprint analysis, as described below:

Chemours was a leader in the Titanium Dioxide Manufacturers Association (TDMA) project to determine the cradle-to-gate life cycle inventory (LCI) of the manufacturing processes for titanium dioxide products, building upon an earlier carbon footprint initiative. Based on this methodology, TDMA members contributed data to calculate an industry average carbon footprint number that represents more than half of the annual global titanium dioxide products production. Chemours provided third party verified data for all our production sites to this effort. The industry average data, as well as the underlying methodology, are available at the TDMA website; see <http://www.tdma.info/sustainability>, published in 2015. TDMA encourages stakeholders to use the TDMA LCI data as a building block in their own cradle-to-grave footprint assessments of Titanium Dioxide applications.

Chemours actively participated in the American Coatings Association and NSF International effort to develop a new Product Category Rule (PCR) for architectural coatings. The PCR provides a standardized method for conducting life cycle assessments and measuring the environmental impacts of coatings products, enabling the publication of verifiable Environmental Product Declarations. For more information on the PCR see <http://www.paint.org/publications-resources/regulatory-support/pcr-for-architectural-coatings/>

The TT business believes that sustainability should be assessed across the whole value chain, using a product life cycle approach, from selecting and sourcing raw materials to how the final product is used and disposed. Determination of an industry average cradle-to-gate carbon footprint has been an important steppingstone on this journey. Our concept considers the performance benefits delivered through a value chain in relation to the footprint burdens. TiO_2 is a versatile material which provides efficient opacity, UV protection, extended life and improved functionality. Therefore, the concept brings into the equation essential attributes like protection, durability or longevity, material use rates and aesthetics (e.g. color, texture, brightness). The PCR work described above accounts for the efficiency of use in the analysis for a more complete product environmental footprint perspective.

We would like to engage our value chain partners to explore and optimize how our Ti-Pure™ titanium dioxide products can enable downstream sustainability benefits.

Further questions should be directed to:
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