

Global NIR Reflective Black Pigments Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G345DB81138CEN.html>

Date: January 2026

Pages: 104

Price: US\$ 4,480.00 (Single User License)

ID: G345DB81138CEN

Abstracts

The global NIR Reflective Black Pigments market size is expected to reach \$ 118 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Near-Infrared (NIR) Reflective Black Pigments are black/dark colorants engineered to retain a black appearance in the visible range while reflecting a meaningful portion of near-infrared radiation. In "cool color" applications, this reduces solar heat build-up on dark surfaces; in "detectable black" applications, the pigments are designed to reflect NIR signals so black plastics can be recognized by NIR sorting systems, unlike conventional carbon black which absorbs NIR and can make black items "invisible" to sorters.

Commercial NIR-reflective black pigments are most commonly implemented as Complex Inorganic Color Pigments (CICPs)-mixed-metal-oxide crystals produced by high-temperature calcination of blended metal oxides/precursors (often >800 °C), yielding durable spinel/corundum-type structures. Typical upstream precursors include iron oxides, and depending on chemistry may include chromium(III) oxide (e.g., many P.Br.29-type IR blacks are in the CICP family), manganese oxides (for ferrite-type blacks), and other metal oxides used to tune shade and NIR response; suppliers also offer chromium-free NIR-reflective black grades for compliance-driven formulations. Downstream demand is strongest in architectural and industrial coatings (roofs, facades, coil/powder systems) where NIR-reflective blacks help keep dark surfaces cooler and improve durability under thermal cycling; and in plastics where they reduce heat-driven warpage/aging and enable recyclable/detectable black packaging that can be sorted by NIR systems. Depending on pigment family and particle engineering, CICPs are also used in ceramics/enamels and construction materials (e.g., colored building elements), with supply forms spanning powders and dispersions (for coatings) and masterbatches/colorant concentrates (for polymers).

In 2025, global sales of Infrared NIR Reflective Black Pigments reached approximately 6,741 tons, with an average global market price of around US\$ 12/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 40%.

NIR reflective black pigments sit at the intersection of thermal management (cool surfaces) and circular-economy plastics. In buildings, the market is pulled by the need to keep dark colors while reducing solar heat gain cool roofs and cool walls are promoted as practical pathways to lower roof/surface temperatures and heat-island impacts, and multiple codes/standards and green-building programs increasingly reference minimum solar reflectance/aged performance requirements. This creates sustained demand for cool black/dark formulations where the pigment itself provides NIR reflectance rather than behaving like conventional carbon black.

On the technology side, the mainstream commercial route remains CACP / mixed-metal-oxide (MMO) inorganic pigments, produced by high-temperature calcination to form stable crystal structures with durable optical performance. Within cool blacks, industry literature frequently highlights C.I. Pigment Brown 29 as a core functional black chemistry for NIR reflectivity, while ferrite/spinel families (often positioned as cool or detectable black options) complement the portfolio depending on undertone, compliance constraints, and cost/performance targets. Suppliers also broaden offerings via dispersions and polymer masterbatches to reduce formulation friction for coatings and plastics converters.

A second growth engine is NIR sorting and recyclability of black plastics. Industry and recycling organizations note that carbon black strongly absorbs NIR, making many black packages difficult to identify in NIR sorting systems; in response, pigment and masterbatch producers commercialize NIR-detectable black solutions designed to reflect NIR signals so black items can be sorted and recycled. This demand is shaped by brand/packaging sustainability commitments and the practical needs of material recovery facilities, which increasingly seek detectable black materials compatible with optical sorting.

This report studies the global NIR Reflective Black Pigments production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NIR Reflective Black Pigments and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of NIR Reflective Black Pigments that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NIR Reflective Black Pigments total production and demand, 2021-2032, (Tons)
Global NIR Reflective Black Pigments total production value, 2021-2032, (USD Million)

Global NIR Reflective Black Pigments production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global NIR Reflective Black Pigments consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: NIR Reflective Black Pigments domestic production, consumption, key domestic manufacturers and share

Global NIR Reflective Black Pigments production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global NIR Reflective Black Pigments production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global NIR Reflective Black Pigments production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global NIR Reflective Black Pigments market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shepherd Color, DIC, Lanxess, Sudarshan, Vibrantz Technologies, Toyo Seikan, OXERRA, Hunan Jufa Pigment, Zhonglong Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World NIR Reflective Black Pigments market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global NIR Reflective Black Pigments Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NIR Reflective Black Pigments Market, Segmentation by Type:

Pigment Brown 29 (P.Br.29)

Pigment Black 33 (P.Bk.33)

Other

Global NIR Reflective Black Pigments Market, Segmentation by Chemical Composition:

Chromium-Containing

Chromium-Free (Cr-Free)

Global NIR Reflective Black Pigments Market, Segmentation by Delivery Form:

Dry Powder Pigment

Pigment Dispersions

Other

Global NIR Reflective Black Pigments Market, Segmentation by Application:

Architectural Coatings

Industrial Coatings

Plastics

Other

Companies Profiled:

Shepherd Color

DIC

Lanxess

Sudarshan

Vibrantz Technologies

Toyo Seikan

OXERRA

Hunan Jufa Pigment

Zhonglong Materials

Key Questions Answered:

1. How big is the global NIR Reflective Black Pigments market?
2. What is the demand of the global NIR Reflective Black Pigments market?
3. What is the year over year growth of the global NIR Reflective Black Pigments market?
4. What is the production and production value of the global NIR Reflective Black Pigments market?
5. Who are the key producers in the global NIR Reflective Black Pigments market?
6. What are the growth factors driving the market demand?

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