

Global Flrpic Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flrpic market size is expected to reach \$ 17.34 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Flrpic, also known as F?Irpic or Ir(difppy)?(pic), is a benchmark sky-blue phosphorescent iridium complex used mainly as an OLED emitter dopant and optoelectronic research material. It is a heteroleptic bis-cyclometalated Ir(III) complex with two difluorophenylpyridine ligands and one picolate ancillary ligand. It is valued for sky-blue emission, high emission efficiency and suitable energy levels in phosphorescent OLED research.

Flrpic should be treated as a single benchmark sky-blue phosphorescent iridium complex, not as the broader blue PHOLED emitter market. The correct market scope includes sublimed OLED grade, high-purity research grade, photophysical research grade and small custom batches of Flrpic only. It should not be mixed with Flr6, FlrN4, Ir(ppy)?, Ir(ppy)?(acac), proprietary blue PHOLED emitters or OLED panel revenue.

From the demand side, Flrpic is mainly used in blue / sky-blue PHOLED research, host-material screening, device architecture benchmarking, vacuum evaporation tests and photophysical studies. It is valuable because it is a well-known reference emitter for blue phosphorescent OLED research. However, its role is more research- and validation-oriented than mass-production-oriented, because commercial blue OLED materials usually require proprietary optimization for lifetime, efficiency, color point and device stability.

From the supply side, Lumtec and SunaTech have the clearest public product evidence and are the strongest OLED-material supply leads. Ossila, Noctiluca and American

Elements also have clear product listings and are relevant for OLED research or evaluation-grade supply. Sigma-Aldrich, BLD, Alfa Chemistry, BOC Sciences, Sino-Compound and Stanford Advanced Materials should be classified mainly as research-grade, custom, catalyst, catalog or channel suppliers unless direct manufacturing and sublimation capability is verified. B2B platforms should not be counted as producers.

The key product differentiation factors are sublimation grade, HPLC purity, PL spectrum consistency, thermal stability, sublimation residue, ligand-related impurity control, iridium salt residue control, structural byproduct control and batch-to-batch reproducibility. For OLED evaporation and device evaluation, customers care about more than nominal purity; they also need stable emission color, low volatile residue, good film behavior and reproducible device performance.

The main commercialization risks are blue-emitter lifetime limitations, ligand degradation, substitution by proprietary blue PHOLED materials, iridium cost volatility, purification yield loss and unclear producer identity for some suppliers. Compared with green Ir(ppy)₃, Flrpic faces a more difficult commercialization path because blue phosphorescent OLED materials are more sensitive to stability and lifetime constraints.

Looking ahead, Flrpic is likely to remain a high-value, low-volume benchmark and evaluation material. Its strongest market role is as a sky-blue PHOLED reference dopant, host-screening material, OLED device research material and photophysical standard, rather than a large-volume commercial display emitter.

This report studies the global Flrpic production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flrpic 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 Flrpic that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flrpic total production and demand, 2021-2032, (Tons)

Global Flrpic total production value, 2021-2032, (USD Million)

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

Global Flrpic consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Flrpic domestic production, consumption, key domestic manufacturers and share

Global Flrpic production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Flrpic production by Product Grade, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Flrpic production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Flrpic 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 Luminescence Technology Corp., SunaTech Inc., Sino-Compound, Noctiluca S.A., American Elements, Merck KGaA, BLD Pharmatech Ltd., 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 Flrpic market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Product Grade, 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 Flrpic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flrpic Market, Segmentation by Product Grade:

Sublimed OLED Grade ≥99.5%

Sublimed OLED Grade ≥99.0%

High-purity Research Grade 98%~99%

Photocatalyst / Synthetic Grade

Customer-specific COA Grade

Global Flrpic Market, Segmentation by Emission Color Target:

Sky-blue Emission

Light-blue Emission

Blue-green Shifted Emission

White OLED Blue Component

Global Flrpic Market, Segmentation by Host Material System:

Carbazole-based Hosts

Triphenylamine / TCTA-type Hosts

Silane / High-triplet-energy Hosts

Bipolar Hosts

Exciplex / Co-host Systems

Global Flrpic Market, Segmentation by Application:

Blue / Sky-blue PHOLED R&D

OLED Device Qualification / Pilot Use

Photophysics / ECL / Spectroscopy

Companies Profiled:

Luminescence Technology Corp.

SunaTech Inc.

Sino-Compound

Noctiluca S.A.

American Elements

Merck KGaA

BLD Pharmatech Ltd.

Key Questions Answered:

1. How big is the global Flrpic market?
2. What is the demand of the global Flrpic market?
3. What is the year over year growth of the global Flrpic market?
4. What is the production and production value of the global Flrpic market?

5. Who are the key producers in the global Flrpic market?
6. What are the growth factors driving the market demand?

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