

Global AR Diffractive Waveguide Resins Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AR Diffractive Waveguide Resins market size is expected to reach \$ 190 million by 2032, rising at a market growth of 17.6% CAGR during the forecast period (2026-2032).

AR diffractive waveguide resins are a class of high performance optical functional materials designed for augmented reality near eye display systems and are mainly used in the fabrication and replication of diffractive waveguides, surface relief gratings, in coupling and out coupling structures, and pupil expansion optical architectures. These materials are commonly based on high refractive index organic polymers, siloxane systems, nano composite polymers, and UV curable formulations, and are processed through nanoimprint lithography, photolithographic replication, resin wafer molding, precision coating, and micro nano pattern transfer technologies. Key technical parameters generally include refractive index, optical transmittance, birefringence, nano pattern replication accuracy, shrinkage rate, anti yellowing capability, and thermal stability. Major product forms include liquid nanoimprint resins, high refractive index resin wafers, UV curable optical resins, and micro nano optical replication materials. The products are mainly applied in AR smart glasses, MR headsets, diffractive optical waveguides, DOE optical devices, and advanced micro nano optical modules. In 2025, the global industry average selling price of AR diffractive waveguide resins was approximately USD 1,800 to USD 12,000 per kilogram, while the average gross margin level was approximately 42% to 58%.

AR diffractive waveguide resins represent a critical upstream segment within the AR near eye display supply chain and currently exhibit the characteristics of a highly specialized and high barrier emerging optical materials industry. Upstream supply mainly includes high purity monomers, nano fillers, siloxane systems, photoinitiators,

and precision coating chemicals, while midstream activities focus on high refractive index resin formulation, nanoimprint materials, and resin wafer manufacturing. Downstream applications are primarily concentrated in AR smart glasses, MR headsets, diffractive optical waveguides, DOE optical devices, and advanced micro nano optical modules. As consumer electronics companies, internet platform firms, and optical module manufacturers accelerate the commercialization of lightweight AR glasses, diffractive waveguide architectures are increasingly favored for their advantages in weight reduction, field of view, and scalable manufacturing efficiency, thereby driving rapid demand growth for high refractive index nanoimprint resins.

The current competitive landscape remains dominated by companies from Japan, Europe, and North America, where high refractive index polymer systems, nano replication technologies, and advanced optical formulations continue to maintain strong technical barriers. In recent years, the industry has witnessed increasing capital investment and supply chain integration activities, with optical material manufacturers expanding into AR waveguide materials and AR device makers promoting localized sourcing strategies. The Chinese market has shown particularly strong momentum in resin waveguide technologies, nanoimprint processes, and micro nano optical manufacturing, and several domestic suppliers have already entered pilot scale production and customer qualification stages. However, high end resin systems are still undergoing continuous material optimization and process iteration.

Future industry expansion will mainly be supported by the commercialization of AR smart glasses, the adoption of lightweight display architectures, and the rapid development of AI enabled wearable terminals. As diffractive waveguide technologies evolve toward larger aperture sizes, higher brightness, and higher refractive index designs, the industry will require increasingly sophisticated materials featuring low shrinkage, high transparency, and ultra precise nano pattern replication capability. Regional supply chains are gradually concentrating in Asia, especially in China, Japan, and South Korea, while some manufacturers are already investing in larger format resin wafer production lines. Over the long term, AR diffractive waveguide resins are expected to remain a high growth emerging optical materials sector, although the industry will continue to face technological competition from silicon based waveguides, glass waveguides, and alternative display architectures.

This report studies the global AR Diffractive Waveguide Resins production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AR

Diffraction Waveguide Resins 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 AR Diffraction Waveguide Resins that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AR Diffraction Waveguide Resins total production and demand, 2021-2032, (Kg)

Global AR Diffraction Waveguide Resins total production value, 2021-2032, (USD Million)

Global AR Diffraction Waveguide Resins production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kg), (based on production site)

Global AR Diffraction Waveguide Resins consumption by region & country, CAGR, 2021-2032 & (Kg)

U.S. VS China: AR Diffraction Waveguide Resins domestic production, consumption, key domestic manufacturers and share

Global AR Diffraction Waveguide Resins production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kg)

Global AR Diffraction Waveguide Resins production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kg)

Global AR Diffraction Waveguide Resins production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kg)

This report profiles key players in the global AR Diffraction Waveguide Resins 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 Pixelligent Technologies, Mitsui Chemicals, Inc., Inkron Oy, TOKYO OHKA KOGYO CO., LTD., Micro Resist Technology GmbH, Toyo Gosei Co., Ltd., Daxin Materials Corp., ZEON Corporation, JSR Corporation, Covestro AG, 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 AR Diffraction Waveguide Resins market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Kg) 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 AR Diffractive Waveguide Resins Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AR Diffractive Waveguide Resins Market, Segmentation by Type:

Nanoimprint Optical Resins

Resin Waveguide Wafers

UV Curable Waveguide Resins

Optical Replication Resins

DOE Optical Resins

Others

Global AR Diffractive Waveguide Resins Market, Segmentation by Refractive Index:

RI Below 1.60

RI 1.60?1.70

RI 1.70?1.80

RI Above 1.80

Others

Global AR Diffractive Waveguide Resins Market, Segmentation by Application:

Consumer Electronics

Industrial AR Systems

Defense and Aerospace

Medical Visualization Devices

Automotive HUD and AR Display

Others

Companies Profiled:

Pixelligent Technologies

Mitsui Chemicals, Inc.

Inkron Oy

TOKYO OHKA KOGYO CO., LTD.

Micro Resist Technology GmbH

Toyo Gosei Co., Ltd.

Daxin Materials Corp.

ZEON Corporation

JSR Corporation

Covestro AG

DELO Industrie Klebstoffe GmbH

Key Questions Answered:

1. How big is the global AR Diffractive Waveguide Resins market?
2. What is the demand of the global AR Diffractive Waveguide Resins market?
3. What is the year over year growth of the global AR Diffractive Waveguide Resins market?
4. What is the production and production value of the global AR Diffractive Waveguide Resins market?
5. Who are the key producers in the global AR Diffractive Waveguide Resins market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 AR Diffractive Waveguide Resins Introduction

1.2 World AR Diffractive Waveguide Resins Supply & Forecast

1.2.1 World AR Diffractive Waveguide Resins Production Value (2021 & 2025 & 2032)

1.2.2 World AR Diffractive Waveguide Resins Production (2021-2032)

1.2.3 World AR Diffractive Waveguide Resins Pricing Trends (2021-2032)

1.3 World AR Diffractive Waveguide Resins Production by Region (Based on Production Site)

1.3.1 World AR Diffractive Waveguide Resins Production Value by Region (2021-2032)

1.3.2 World AR Diffractive Waveguide Resins Production by Region (2021-2032)

1.3.3 World AR Diffractive Waveguide Resins Average Price by Region (2021-2032)

1.3.4 North America AR Diffractive Waveguide Resins Production (2021-2032)

1.3.5 Europe AR Diffractive Waveguide Resins Production (2021-2032)

1.3.6 China AR Diffractive Waveguide Resins Production (2021-2032)

1.3.7 Japan AR Diffractive Waveguide Resins Production (2021-2032)

1.3.8 India AR Diffractive Waveguide Resins Production (2021-2032)

1.3.9 Southeast Asia AR Diffractive Waveguide Resins Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 AR Diffractive Waveguide Resins Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 AR Diffractive Waveguide Resins Major Market Trends

2 DEMAND SUMMARY

2.1 World AR Diffractive Waveguide Resins Demand (2021-2032)

2.2 World AR Diffractive Waveguide Resins Consumption by Region

2.2.1 World AR Diffractive Waveguide Resins Consumption by Region (2021-2026)

2.2.2 World AR Diffractive Waveguide Resins Consumption Forecast by Region (2027-2032)

2.3 United States AR Diffractive Waveguide Resins Consumption (2021-2032)

2.4 China AR Diffractive Waveguide Resins Consumption (2021-2032)

2.5 Europe AR Diffractive Waveguide Resins Consumption (2021-2032)

2.6 Japan AR Diffractive Waveguide Resins Consumption (2021-2032)

2.7 South Korea AR Diffractive Waveguide Resins Consumption (2021-2032)

2.8 ASEAN AR Diffractive Waveguide Resins Consumption (2021-2032)

2.9 India AR Diffractive Waveguide Resins Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World AR Diffractive Waveguide Resins Production Value by Manufacturer (2021-2026)

3.2 World AR Diffractive Waveguide Resins Production by Manufacturer (2021-2026)

3.3 World AR Diffractive Waveguide Resins Average Price by Manufacturer (2021-2026)

3.4 AR Diffractive Waveguide Resins Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global AR Diffractive Waveguide Resins Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for AR Diffractive Waveguide Resins in 2025

3.5.3 Global Concentration Ratios (CR8) for AR Diffractive Waveguide Resins in 2025

3.6 AR Diffractive Waveguide Resins Market: Overall Company Footprint Analysis

3.6.1 AR Diffractive Waveguide Resins Market: Region Footprint

3.6.2 AR Diffractive Waveguide Resins Market: Company Product Type Footprint

3.6.3 AR Diffractive Waveguide Resins Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: AR Diffractive Waveguide Resins Production Value Comparison

4.1.1 United States VS China: AR Diffractive Waveguide Resins Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: AR Diffractive Waveguide Resins Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: AR Diffractive Waveguide Resins Production Comparison

4.2.1 United States VS China: AR Diffractive Waveguide Resins Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: AR Diffractive Waveguide Resins Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: AR Diffractive Waveguide Resins Consumption Comparison

4.3.1 United States VS China: AR Diffractive Waveguide Resins Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: AR Diffractive Waveguide Resins Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based AR Diffractive Waveguide Resins Manufacturers and Market Share, 2021-2026

4.4.1 United States Based AR Diffractive Waveguide Resins Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers AR Diffractive Waveguide Resins Production Value (2021-2026)

4.4.3 United States Based Manufacturers AR Diffractive Waveguide Resins Production (2021-2026)

4.5 China Based AR Diffractive Waveguide Resins Manufacturers and Market Share

4.5.1 China Based AR Diffractive Waveguide Resins Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers AR Diffractive Waveguide Resins Production Value (2021-2026)

4.5.3 China Based Manufacturers AR Diffractive Waveguide Resins Production (2021-2026)

4.6 Rest of World Based AR Diffractive Waveguide Resins Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based AR Diffractive Waveguide Resins Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World AR Diffractive Waveguide Resins Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Nanoimprint Optical Resins

5.2.2 Resin Waveguide Wafers

5.2.3 UV Curable Waveguide Resins

5.2.4 Optical Replication Resins

5.2.5 DOE Optical Resins

5.2.6 Others

5.3 Market Segment by Type

5.3.1 World AR Diffractive Waveguide Resins Production by Type (2021-2032)

5.3.2 World AR Diffractive Waveguide Resins Production Value by Type (2021-2032)

5.3.3 World AR Diffractive Waveguide Resins Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY REFRACTIVE INDEX

6.1 World AR Diffractive Waveguide Resins Market Size Overview by Refractive Index: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Refractive Index

6.2.1 RI Below 1.60

6.2.2 RI 1.60-1.70

6.2.3 RI 1.70-1.80

6.2.4 RI Above 1.80

6.2.5 Others

6.3 Market Segment by Refractive Index

6.3.1 World AR Diffractive Waveguide Resins Production by Refractive Index (2021-2032)

6.3.2 World AR Diffractive Waveguide Resins Production Value by Refractive Index (2021-2032)

6.3.3 World AR Diffractive Waveguide Resins Average Price by Refractive Index (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World AR Diffractive Waveguide Resins Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Consumer Electronics

7.2.2 Industrial AR Systems

7.2.3 Defense and Aerospace

7.2.4 Medical Visualization Devices

7.2.5 Automotive HUD and AR Display

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World AR Diffractive Waveguide Resins Production by Application (2021-2032)

7.3.2 World AR Diffractive Waveguide Resins Production Value by Application

(2021-2032)

7.3.3 World AR Diffractive Waveguide Resins Average Price by Application

(2021-2032)

8 COMPANY PROFILES

8.1 Pixelligent Technologies

8.1.1 Pixelligent Technologies Details

8.1.2 Pixelligent Technologies Major Business

8.1.3 Pixelligent Technologies AR Diffractive Waveguide Resins Product and Services

8.1.4 Pixelligent Technologies AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Pixelligent Technologies Recent Developments/Updates

8.1.6 Pixelligent Technologies Competitive Strengths & Weaknesses

8.2 Mitsui Chemicals, Inc.

8.2.1 Mitsui Chemicals, Inc. Details

8.2.2 Mitsui Chemicals, Inc. Major Business

8.2.3 Mitsui Chemicals, Inc. AR Diffractive Waveguide Resins Product and Services

8.2.4 Mitsui Chemicals, Inc. AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Mitsui Chemicals, Inc. Recent Developments/Updates

8.2.6 Mitsui Chemicals, Inc. Competitive Strengths & Weaknesses

8.3 Inkron Oy

8.3.1 Inkron Oy Details

8.3.2 Inkron Oy Major Business

8.3.3 Inkron Oy AR Diffractive Waveguide Resins Product and Services

8.3.4 Inkron Oy AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Inkron Oy Recent Developments/Updates

8.3.6 Inkron Oy Competitive Strengths & Weaknesses

8.4 TOKYO OHKA KOGYO CO., LTD.

8.4.1 TOKYO OHKA KOGYO CO., LTD. Details

8.4.2 TOKYO OHKA KOGYO CO., LTD. Major Business

8.4.3 TOKYO OHKA KOGYO CO., LTD. AR Diffractive Waveguide Resins Product and Services

8.4.4 TOKYO OHKA KOGYO CO., LTD. AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 TOKYO OHKA KOGYO CO., LTD. Recent Developments/Updates

8.4.6 TOKYO OHKA KOGYO CO., LTD. Competitive Strengths & Weaknesses

8.5 Micro Resist Technology GmbH

8.5.1 Micro Resist Technology GmbH Details

8.5.2 Micro Resist Technology GmbH Major Business

8.5.3 Micro Resist Technology GmbH AR Diffractive Waveguide Resins Product and Services

8.5.4 Micro Resist Technology GmbH AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Micro Resist Technology GmbH Recent Developments/Updates

8.5.6 Micro Resist Technology GmbH Competitive Strengths & Weaknesses

8.6 Toyo Gosei Co., Ltd.

8.6.1 Toyo Gosei Co., Ltd. Details

8.6.2 Toyo Gosei Co., Ltd. Major Business

8.6.3 Toyo Gosei Co., Ltd. AR Diffractive Waveguide Resins Product and Services

8.6.4 Toyo Gosei Co., Ltd. AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Toyo Gosei Co., Ltd. Recent Developments/Updates

8.6.6 Toyo Gosei Co., Ltd. Competitive Strengths & Weaknesses

8.7 Daxin Materials Corp.

8.7.1 Daxin Materials Corp. Details

8.7.2 Daxin Materials Corp. Major Business

8.7.3 Daxin Materials Corp. AR Diffractive Waveguide Resins Product and Services

8.7.4 Daxin Materials Corp. AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Daxin Materials Corp. Recent Developments/Updates

8.7.6 Daxin Materials Corp. Competitive Strengths & Weaknesses

8.8 ZEON Corporation

8.8.1 ZEON Corporation Details

8.8.2 ZEON Corporation Major Business

8.8.3 ZEON Corporation AR Diffractive Waveguide Resins Product and Services

8.8.4 ZEON Corporation AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 ZEON Corporation Recent Developments/Updates

8.8.6 ZEON Corporation Competitive Strengths & Weaknesses

8.9 JSR Corporation

8.9.1 JSR Corporation Details

8.9.2 JSR Corporation Major Business

8.9.3 JSR Corporation AR Diffractive Waveguide Resins Product and Services

8.9.4 JSR Corporation AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.9.5 JSR Corporation Recent Developments/Updates
- 8.9.6 JSR Corporation Competitive Strengths & Weaknesses
- 8.10 Covestro AG
 - 8.10.1 Covestro AG Details
 - 8.10.2 Covestro AG Major Business
 - 8.10.3 Covestro AG AR Diffractive Waveguide Resins Product and Services
 - 8.10.4 Covestro AG AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Covestro AG Recent Developments/Updates
 - 8.10.6 Covestro AG Competitive Strengths & Weaknesses
- 8.11 DELO Industrie Klebstoffe GmbH
 - 8.11.1 DELO Industrie Klebstoffe GmbH Details
 - 8.11.2 DELO Industrie Klebstoffe GmbH Major Business
 - 8.11.3 DELO Industrie Klebstoffe GmbH AR Diffractive Waveguide Resins Product and Services
 - 8.11.4 DELO Industrie Klebstoffe GmbH AR Diffractive Waveguide Resins Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 DELO Industrie Klebstoffe GmbH Recent Developments/Updates
 - 8.11.6 DELO Industrie Klebstoffe GmbH Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 AR Diffractive Waveguide Resins Industry Chain
- 9.2 AR Diffractive Waveguide Resins Upstream Analysis
 - 9.2.1 AR Diffractive Waveguide Resins Core Raw Materials
 - 9.2.2 Main Manufacturers of AR Diffractive Waveguide Resins Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 AR Diffractive Waveguide Resins Production Mode
- 9.6 AR Diffractive Waveguide Resins Procurement Model
- 9.7 AR Diffractive Waveguide Resins Industry Sales Model and Sales Channels
 - 9.7.1 AR Diffractive Waveguide Resins Sales Model
 - 9.7.2 AR Diffractive Waveguide Resins Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World AR Diffractive Waveguide Resins Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AR Diffractive Waveguide Resins Production Value by Region (2021-2026) & (USD Million)

Table 3. World AR Diffractive Waveguide Resins Production Value by Region (2027-2032) & (USD Million)

Table 4. World AR Diffractive Waveguide Resins Production Value Market Share by Region (2021-2026)

Table 5. World AR Diffractive Waveguide Resins Production Value Market Share by Region (2027-2032)

Table 6. World AR Diffractive Waveguide Resins Production by Region (2021-2026) & (Kg)

Table 7. World AR Diffractive Waveguide Resins Production by Region (2027-2032) & (Kg)

Table 8. World AR Diffractive Waveguide Resins Production Market Share by Region (2021-2026)

Table 9. World AR Diffractive Waveguide Resins Production Market Share by Region (2027-2032)

Table 10. World AR Diffractive Waveguide Resins Average Price by Region (2021-2026) & (US\$/Kg)

Table 11. World AR Diffractive Waveguide Resins Average Price by Region (2027-2032) & (US\$/Kg)

Table 12. AR Diffractive Waveguide Resins Major Market Trends

Table 13. World AR Diffractive Waveguide Resins Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kg)

Table 14. World AR Diffractive Waveguide Resins Consumption by Region (2021-2026) & (Kg)

Table 15. World AR Diffractive Waveguide Resins Consumption Forecast by Region (2027-2032) & (Kg)

Table 16. World AR Diffractive Waveguide Resins Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AR Diffractive Waveguide Resins Producers in 2025

Table 18. World AR Diffractive Waveguide Resins Production by Manufacturer (2021-2026) & (Kg)

Table 19. Production Market Share of Key AR Diffractive Waveguide Resins Producers in 2025

Table 20. World AR Diffractive Waveguide Resins Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 21. Global AR Diffractive Waveguide Resins Company Evaluation Quadrant

Table 22. World AR Diffractive Waveguide Resins Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AR Diffractive Waveguide Resins Production Site of Key Manufacturer

Table 24. AR Diffractive Waveguide Resins Market: Company Product Type Footprint

Table 25. AR Diffractive Waveguide Resins Market: Company Product Application Footprint

Table 26. AR Diffractive Waveguide Resins Competitive Factors

Table 27. AR Diffractive Waveguide Resins New Entrant and Capacity Expansion Plans

Table 28. AR Diffractive Waveguide Resins Mergers & Acquisitions Activity

Table 29. United States VS China AR Diffractive Waveguide Resins Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AR Diffractive Waveguide Resins Production Comparison, (2021 & 2025 & 2032) & (Kg)

Table 31. United States VS China AR Diffractive Waveguide Resins Consumption Comparison, (2021 & 2025 & 2032) & (Kg)

Table 32. United States Based AR Diffractive Waveguide Resins Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AR Diffractive Waveguide Resins Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AR Diffractive Waveguide Resins Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AR Diffractive Waveguide Resins Production (2021-2026) & (Kg)

Table 36. United States Based Manufacturers AR Diffractive Waveguide Resins Production Market Share (2021-2026)

Table 37. China Based AR Diffractive Waveguide Resins Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AR Diffractive Waveguide Resins Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AR Diffractive Waveguide Resins Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AR Diffractive Waveguide Resins Production, (2021-2026) & (Kg)

Table 41. China Based Manufacturers AR Diffractive Waveguide Resins Production Market Share (2021-2026)

Table 42. Rest of World Based AR Diffractive Waveguide Resins Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production, (2021-2026) & (Kg)

Table 46. Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production Market Share (2021-2026)

Table 47. World AR Diffractive Waveguide Resins Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World AR Diffractive Waveguide Resins Production by Type (2021-2026) & (Kg)

Table 49. World AR Diffractive Waveguide Resins Production by Type (2027-2032) & (Kg)

Table 50. World AR Diffractive Waveguide Resins Production Value by Type (2021-2026) & (USD Million)

Table 51. World AR Diffractive Waveguide Resins Production Value by Type (2027-2032) & (USD Million)

Table 52. World AR Diffractive Waveguide Resins Average Price by Type (2021-2026) & (US\$/Kg)

Table 53. World AR Diffractive Waveguide Resins Average Price by Type (2027-2032) & (US\$/Kg)

Table 54. World AR Diffractive Waveguide Resins Production Value by Refractive Index, (USD Million), 2021 & 2025 & 2032

Table 55. World AR Diffractive Waveguide Resins Production by Refractive Index (2021-2026) & (Kg)

Table 56. World AR Diffractive Waveguide Resins Production by Refractive Index (2027-2032) & (Kg)

Table 57. World AR Diffractive Waveguide Resins Production Value by Refractive Index (2021-2026) & (USD Million)

Table 58. World AR Diffractive Waveguide Resins Production Value by Refractive Index (2027-2032) & (USD Million)

Table 59. World AR Diffractive Waveguide Resins Average Price by Refractive Index (2021-2026) & (US\$/Kg)

Table 60. World AR Diffractive Waveguide Resins Average Price by Refractive Index

(2027-2032) & (US\$/Kg)

Table 61. World AR Diffractive Waveguide Resins Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World AR Diffractive Waveguide Resins Production by Application (2021-2026) & (Kg)

Table 63. World AR Diffractive Waveguide Resins Production by Application (2027-2032) & (Kg)

Table 64. World AR Diffractive Waveguide Resins Production Value by Application (2021-2026) & (USD Million)

Table 65. World AR Diffractive Waveguide Resins Production Value by Application (2027-2032) & (USD Million)

Table 66. World AR Diffractive Waveguide Resins Average Price by Application (2021-2026) & (US\$/Kg)

Table 67. World AR Diffractive Waveguide Resins Average Price by Application (2027-2032) & (US\$/Kg)

Table 68. Pixelligent Technologies Basic Information, Manufacturing Base and Competitors

Table 69. Pixelligent Technologies Major Business

Table 70. Pixelligent Technologies AR Diffractive Waveguide Resins Product and Services

Table 71. Pixelligent Technologies AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Pixelligent Technologies Recent Developments/Updates

Table 73. Pixelligent Technologies Competitive Strengths & Weaknesses

Table 74. Mitsui Chemicals, Inc. Basic Information, Manufacturing Base and Competitors

Table 75. Mitsui Chemicals, Inc. Major Business

Table 76. Mitsui Chemicals, Inc. AR Diffractive Waveguide Resins Product and Services

Table 77. Mitsui Chemicals, Inc. AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Mitsui Chemicals, Inc. Recent Developments/Updates

Table 79. Mitsui Chemicals, Inc. Competitive Strengths & Weaknesses

Table 80. Inkron Oy Basic Information, Manufacturing Base and Competitors

Table 81. Inkron Oy Major Business

Table 82. Inkron Oy AR Diffractive Waveguide Resins Product and Services

Table 83. Inkron Oy AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Inkron Oy Recent Developments/Updates

Table 85. Inkron Oy Competitive Strengths & Weaknesses

Table 86. TOKYO OHKA KOGYO CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 87. TOKYO OHKA KOGYO CO., LTD. Major Business

Table 88. TOKYO OHKA KOGYO CO., LTD. AR Diffractive Waveguide Resins Product and Services

Table 89. TOKYO OHKA KOGYO CO., LTD. AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. TOKYO OHKA KOGYO CO., LTD. Recent Developments/Updates

Table 91. TOKYO OHKA KOGYO CO., LTD. Competitive Strengths & Weaknesses

Table 92. Micro Resist Technology GmbH Basic Information, Manufacturing Base and Competitors

Table 93. Micro Resist Technology GmbH Major Business

Table 94. Micro Resist Technology GmbH AR Diffractive Waveguide Resins Product and Services

Table 95. Micro Resist Technology GmbH AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Micro Resist Technology GmbH Recent Developments/Updates

Table 97. Micro Resist Technology GmbH Competitive Strengths & Weaknesses

Table 98. Toyo Gosei Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 99. Toyo Gosei Co., Ltd. Major Business

Table 100. Toyo Gosei Co., Ltd. AR Diffractive Waveguide Resins Product and Services

Table 101. Toyo Gosei Co., Ltd. AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Toyo Gosei Co., Ltd. Recent Developments/Updates

Table 103. Toyo Gosei Co., Ltd. Competitive Strengths & Weaknesses

Table 104. Daxin Materials Corp. Basic Information, Manufacturing Base and Competitors

Table 105. Daxin Materials Corp. Major Business

Table 106. Daxin Materials Corp. AR Diffractive Waveguide Resins Product and Services

Table 107. Daxin Materials Corp. AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Daxin Materials Corp. Recent Developments/Updates

Table 109. Daxin Materials Corp. Competitive Strengths & Weaknesses
Table 110. ZEON Corporation Basic Information, Manufacturing Base and Competitors
Table 111. ZEON Corporation Major Business
Table 112. ZEON Corporation AR Diffractive Waveguide Resins Product and Services
Table 113. ZEON Corporation AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. ZEON Corporation Recent Developments/Updates
Table 115. ZEON Corporation Competitive Strengths & Weaknesses
Table 116. JSR Corporation Basic Information, Manufacturing Base and Competitors
Table 117. JSR Corporation Major Business
Table 118. JSR Corporation AR Diffractive Waveguide Resins Product and Services
Table 119. JSR Corporation AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 120. JSR Corporation Recent Developments/Updates
Table 121. JSR Corporation Competitive Strengths & Weaknesses
Table 122. Covestro AG Basic Information, Manufacturing Base and Competitors
Table 123. Covestro AG Major Business
Table 124. Covestro AG AR Diffractive Waveguide Resins Product and Services
Table 125. Covestro AG AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 126. Covestro AG Recent Developments/Updates
Table 127. Covestro AG Competitive Strengths & Weaknesses
Table 128. DELO Industrie Klebstoffe GmbH Basic Information, Manufacturing Base and Competitors
Table 129. DELO Industrie Klebstoffe GmbH Major Business
Table 130. DELO Industrie Klebstoffe GmbH AR Diffractive Waveguide Resins Product and Services
Table 131. DELO Industrie Klebstoffe GmbH AR Diffractive Waveguide Resins Production (Kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 132. DELO Industrie Klebstoffe GmbH Recent Developments/Updates
Table 133. DELO Industrie Klebstoffe GmbH Competitive Strengths & Weaknesses
Table 134. Global Key Players of AR Diffractive Waveguide Resins Upstream (Raw Materials)
Table 135. Global AR Diffractive Waveguide Resins Typical Customers
Table 136. AR Diffractive Waveguide Resins Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. AR Diffractive Waveguide Resins Picture

Figure 2. World AR Diffractive Waveguide Resins Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AR Diffractive Waveguide Resins Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 5. World AR Diffractive Waveguide Resins Average Price (2021-2032) & (US\$/Kg)

Figure 6. World AR Diffractive Waveguide Resins Production Value Market Share by Region (2021-2032)

Figure 7. World AR Diffractive Waveguide Resins Production Market Share by Region (2021-2032)

Figure 8. North America AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 9. Europe AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 10. China AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 11. Japan AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 12. India AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 13. Southeast Asia AR Diffractive Waveguide Resins Production (2021-2032) & (Kg)

Figure 14. AR Diffractive Waveguide Resins Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 17. World AR Diffractive Waveguide Resins Consumption Market Share by Region (2021-2032)

Figure 18. United States AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 19. China AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 20. Europe AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 21. Japan AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 22. South Korea AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 23. ASEAN AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 24. India AR Diffractive Waveguide Resins Consumption (2021-2032) & (Kg)

Figure 25. Producer Shipments of AR Diffractive Waveguide Resins by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for AR Diffractive Waveguide Resins Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for AR Diffractive Waveguide Resins Markets in 2025

Figure 28. United States VS China: AR Diffractive Waveguide Resins Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: AR Diffractive Waveguide Resins Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: AR Diffractive Waveguide Resins Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers AR Diffractive Waveguide Resins Production Market Share 2025

Figure 32. China Based Manufacturers AR Diffractive Waveguide Resins Production Market Share 2025

Figure 33. Rest of World Based Manufacturers AR Diffractive Waveguide Resins Production Market Share 2025

Figure 34. World AR Diffractive Waveguide Resins Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World AR Diffractive Waveguide Resins Production Value Market Share by Type in 2025

Figure 36. Nanoimprint Optical Resins

Figure 37. Resin Waveguide Wafers

Figure 38. UV Curable Waveguide Resins

Figure 39. Optical Replication Resins

Figure 40. DOE Optical Resins

Figure 41. Others

Figure 42. World AR Diffractive Waveguide Resins Production Market Share by Type (2021-2032)

Figure 43. World AR Diffractive Waveguide Resins Production Value Market Share by Type (2021-2032)

Figure 44. World AR Diffractive Waveguide Resins Average Price by Type (2021-2032) & (US\$/Kg)

Figure 45. World AR Diffractive Waveguide Resins Production Value by Refractive Index, (USD Million), 2021 & 2025 & 2032

Figure 46. World AR Diffractive Waveguide Resins Production Value Market Share by Refractive Index in 2025

Figure 47. RI Below 1.60

Figure 48. RI 1.60?1.70

Figure 49. RI 1.70?1.80

Figure 50. RI Above 1.80

Figure 51. Others

Figure 52. World AR Diffractive Waveguide Resins Production Market Share by Refractive Index (2021-2032)

Figure 53. World AR Diffractive Waveguide Resins Production Value Market Share by Refractive Index (2021-2032)

Figure 54. World AR Diffractive Waveguide Resins Average Price by Refractive Index (2021-2032) & (US\$/Kg)

Figure 55. World AR Diffractive Waveguide Resins Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World AR Diffractive Waveguide Resins Production Value Market Share by Application in 2025

Figure 57. Consumer Electronics

Figure 58. Industrial AR Systems

Figure 59. Defense and Aerospace

Figure 60. Medical Visualization Devices

Figure 61. Automotive HUD and AR Display

Figure 62. Others

Figure 63. World AR Diffractive Waveguide Resins Production Market Share by Application (2021-2032)

Figure 64. World AR Diffractive Waveguide Resins Production Value Market Share by Application (2021-2032)

Figure 65. World AR Diffractive Waveguide Resins Average Price by Application (2021-2032) & (US\$/Kg)

Figure 66. AR Diffractive Waveguide Resins Industry Chain

Figure 67. AR Diffractive Waveguide Resins Procurement Model

Figure 68. AR Diffractive Waveguide Resins Sales Model

Figure 69. AR Diffractive Waveguide Resins Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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