

Global Quaternium-82 Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GCE46A9090C0EN.html>

Date: August 2026

Pages: 167

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

ID: GCE46A9090C0EN

Abstracts

The global Quaternium-82 market size is expected to reach \$ 150 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

Quaternium-82 is a quaternary ammonium salt used mainly in cosmetic and personal care formulations as a conditioning, antistatic and emulsifying ingredient. Its INCI name is Quaternium-82, and the chemical name is commonly listed as [2-[bis(2-hydroxypropyl)amino]ethyl]bis(2-hydroxypropyl)(methyl)ammonium methyl sulphate, dioleate ester. In finished formulations, it is mainly used to improve wet and dry combability, reduce static, improve softness, reduce frizz, enhance hair manageability and support emulsification in hair conditioners, hair treatments, styling aids, creams and lotions. In this report, the market mainly includes cosmetic-grade Quaternium-82, hair-conditioning Quaternium-82, liquid Quaternium-82 concentrates, paste-type Quaternium-82, emulsifying cationic conditioners and Quaternium-82 blends used in personal care. The 2025 benchmark ASP is US\$7,500 / ton, sales volume is 11.36 k tons, and average gross margin is 50%. The upstream industry chain includes fatty acids or oleic acid derivatives, tertiary amines, methyl sulfate, quaternization reagents, solvents, neutralizers, stabilizers, preservatives, water, drums, IBC tanks and packaging materials. The midstream includes esterification, amination, quaternization, solvent adjustment, purification, active-content adjustment, viscosity control, color and odor control, microbiological testing, cosmetic-grade quality control, filling and packaging. The downstream includes cosmetic ingredient distributors, hair-care brands, shampoo and conditioner manufacturers, contract cosmetic manufacturers, professional salon product companies, skin-care formulators, personal care R&D labs and e-commerce ingredient suppliers.

Quaternium-82 is a niche but high-value conditioning ingredient within the personal care

ingredient market. Its demand is mainly supported by premium hair conditioners, hair masks, leave-in treatments, anti-frizz products, styling aids and mild conditioning formulations. Compared with commodity cationic surfactants, Quaternium-82 is positioned more as a specialty conditioning and emulsifying ingredient, valued for hair feel, static control, combability and formulation aesthetics. The market benefits from consumer demand for smoother hair, salon-like conditioning, damaged hair repair, anti-frizz claims, curly-hair care, textured-hair care and multifunctional personal care formulations. Growth is also supported by premiumization in hair care and the expansion of indie and professional brands using specialty conditioning systems. However, the market is constrained by its narrow ingredient scope, relatively high price, competition from behentrimonium chloride, cetrimonium chloride, Polyquaternium polymers, esterquats, silicones, amino silicones, guar hydroxypropyltrimonium chloride and newer naturally derived cationic conditioners. Regulatory scrutiny over quaternary ammonium compounds and the need for mildness, biodegradability and sustainability claims may also influence formulation choices. Future competition will focus on plant-derived positioning, lower irritation, improved biodegradability, better wet and dry combing performance, silicone-free conditioning, curl-care compatibility, sulfate-free systems, high active content, easier cold processing and multifunctional emulsification.

This report studies the global Quaternium-82 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quaternium-82 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 Quaternium-82 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quaternium-82 total production and demand, 2021-2032, (Kilotons)

Global Quaternium-82 total production value, 2021-2032, (USD Million)

Global Quaternium-82 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Quaternium-82 consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Quaternium-82 domestic production, consumption, key domestic manufacturers and share

Global Quaternium-82 production by manufacturer, production, price, value and market

share 2021-2026, (USD Million) & (Kilotons)

Global Quaternium-82 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Quaternium-82 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Quaternium-82 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 Stepan Company, Guangzhou Reachin Chemical, Evonik Industries, BASF, Croda International, Clariant, Solvay / Syensqo, Nouryon, Ashland, Lubrizol, 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 Quaternium-82 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Quaternium-82 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quaternium-82 Market, Segmentation by Type:

Concentration ? 95%

Concentration

Global Quaternium-82 Market, Segmentation by Product Form:

Liquid

Powder

Paste

Global Quaternium-82 Market, Segmentation by Formulation Type:

Rinse-Off Formulations

Leave-On Formulations

Global Quaternium-82 Market, Segmentation by Application:

Head Care (Conditioners, Shampoos, Styling Aids)

Skin Care (Creams, Lotions, Serums)

Household Cleaners

Industrial Cleaners

Personal Hygiene (Deodorants, Soaps)

Companies Profiled:

Stepan Company

Guangzhou Reachin Chemical

Evonik Industries

BASF

Croda International

Clariant

Solvay / Syensqo

Nouryon

Ashland

Lubrizol

Innospec

Kao Chemicals

Seppic

Galaxy Surfactants

KCI Limited

Guangzhou Tinci Materials Technology

Zhejiang Zanyu Technology

Guangzhou DX Chemical

Shanghai Oli Enterprises

Guangzhou Batai Chemical

Guangzhou Startec Science and Technology

Hangzhou Lingeba Technology

Key Questions Answered:

1. How big is the global Quaternium-82 market?
2. What is the demand of the global Quaternium-82 market?
3. What is the year over year growth of the global Quaternium-82 market?
4. What is the production and production value of the global Quaternium-82 market?
5. Who are the key producers in the global Quaternium-82 market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Quaternium-82 Introduction
- 1.2 World Quaternium-82 Supply & Forecast
 - 1.2.1 World Quaternium-82 Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Quaternium-82 Production (2021-2032)
 - 1.2.3 World Quaternium-82 Pricing Trends (2021-2032)
- 1.3 World Quaternium-82 Production by Region (Based on Production Site)
 - 1.3.1 World Quaternium-82 Production Value by Region (2021-2032)
 - 1.3.2 World Quaternium-82 Production by Region (2021-2032)
 - 1.3.3 World Quaternium-82 Average Price by Region (2021-2032)
 - 1.3.4 North America Quaternium-82 Production (2021-2032)
 - 1.3.5 Europe Quaternium-82 Production (2021-2032)
 - 1.3.6 China Quaternium-82 Production (2021-2032)
 - 1.3.7 Japan Quaternium-82 Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Quaternium-82 Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Quaternium-82 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Quaternium-82 Demand (2021-2032)
- 2.2 World Quaternium-82 Consumption by Region
 - 2.2.1 World Quaternium-82 Consumption by Region (2021-2026)
 - 2.2.2 World Quaternium-82 Consumption Forecast by Region (2027-2032)
- 2.3 United States Quaternium-82 Consumption (2021-2032)
- 2.4 China Quaternium-82 Consumption (2021-2032)
- 2.5 Europe Quaternium-82 Consumption (2021-2032)
- 2.6 Japan Quaternium-82 Consumption (2021-2032)
- 2.7 South Korea Quaternium-82 Consumption (2021-2032)
- 2.8 ASEAN Quaternium-82 Consumption (2021-2032)
- 2.9 India Quaternium-82 Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Quaternium-82 Production Value by Manufacturer (2021-2026)

- 3.2 World Quaternium-82 Production by Manufacturer (2021-2026)
- 3.3 World Quaternium-82 Average Price by Manufacturer (2021-2026)
- 3.4 Quaternium-82 Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Quaternium-82 Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Quaternium-82 in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Quaternium-82 in 2025
- 3.6 Quaternium-82 Market: Overall Company Footprint Analysis
 - 3.6.1 Quaternium-82 Market: Region Footprint
 - 3.6.2 Quaternium-82 Market: Company Product Type Footprint
 - 3.6.3 Quaternium-82 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: Quaternium-82 Production Value Comparison
 - 4.1.1 United States VS China: Quaternium-82 Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Quaternium-82 Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Quaternium-82 Production Comparison
 - 4.2.1 United States VS China: Quaternium-82 Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Quaternium-82 Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Quaternium-82 Consumption Comparison
 - 4.3.1 United States VS China: Quaternium-82 Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Quaternium-82 Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Quaternium-82 Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Quaternium-82 Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Quaternium-82 Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Quaternium-82 Production (2021-2026)

4.5 China Based Quaternium-82 Manufacturers and Market Share

4.5.1 China Based Quaternium-82 Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Quaternium-82 Production Value (2021-2026)

4.5.3 China Based Manufacturers Quaternium-82 Production (2021-2026)

4.6 Rest of World Based Quaternium-82 Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Quaternium-82 Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Quaternium-82 Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Quaternium-82 Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Quaternium-82 Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Concentration ? 95%

5.2.2 Concentration 5.3 Market Segment by Type

5.3.1 World Quaternium-82 Production by Type (2021-2032)

5.3.2 World Quaternium-82 Production Value by Type (2021-2032)

5.3.3 World Quaternium-82 Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Quaternium-82 Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Liquid

6.2.2 Powder

6.2.3 Paste

6.3 Market Segment by Product Form

6.3.1 World Quaternium-82 Production by Product Form (2021-2032)

6.3.2 World Quaternium-82 Production Value by Product Form (2021-2032)

6.3.3 World Quaternium-82 Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY FORMULATION TYPE

7.1 World Quaternium-82 Market Size Overview by Formulation Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Formulation Type

7.2.1 Rinse-Off Formulations

7.2.2 Leave-On Formulations

7.3 Market Segment by Formulation Type

7.3.1 World Quaternium-82 Production by Formulation Type (2021-2032)

7.3.2 World Quaternium-82 Production Value by Formulation Type (2021-2032)

7.3.3 World Quaternium-82 Average Price by Formulation Type (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Quaternium-82 Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Head Care (Conditioners, Shampoos, Styling Aids)

8.2.2 Skin Care (Creams, Lotions, Serums)

8.2.3 Household Cleaners

8.2.4 Industrial Cleaners

8.2.5 Personal Hygiene (Deodorants, Soaps)

8.3 Market Segment by Application

8.3.1 World Quaternium-82 Production by Application (2021-2032)

8.3.2 World Quaternium-82 Production Value by Application (2021-2032)

8.3.3 World Quaternium-82 Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Stepan Company

9.1.1 Stepan Company Details

9.1.2 Stepan Company Major Business

9.1.3 Stepan Company Quaternium-82 Product and Services

9.1.4 Stepan Company Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Stepan Company Recent Developments/Updates

9.1.6 Stepan Company Competitive Strengths & Weaknesses

9.2 Guangzhou Reachin Chemical

9.2.1 Guangzhou Reachin Chemical Details

9.2.2 Guangzhou Reachin Chemical Major Business

9.2.3 Guangzhou Reachin Chemical Quaternium-82 Product and Services

9.2.4 Guangzhou Reachin Chemical Quaternium-82 Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.2.5 Guangzhou Reachin Chemical Recent Developments/Updates

9.2.6 Guangzhou Reachin Chemical Competitive Strengths & Weaknesses

9.3 Evonik Industries

9.3.1 Evonik Industries Details

9.3.2 Evonik Industries Major Business

9.3.3 Evonik Industries Quaternium-82 Product and Services

9.3.4 Evonik Industries Quaternium-82 Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.3.5 Evonik Industries Recent Developments/Updates

9.3.6 Evonik Industries Competitive Strengths & Weaknesses

9.4 BASF

9.4.1 BASF Details

9.4.2 BASF Major Business

9.4.3 BASF Quaternium-82 Product and Services

9.4.4 BASF Quaternium-82 Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.4.5 BASF Recent Developments/Updates

9.4.6 BASF Competitive Strengths & Weaknesses

9.5 Croda International

9.5.1 Croda International Details

9.5.2 Croda International Major Business

9.5.3 Croda International Quaternium-82 Product and Services

9.5.4 Croda International Quaternium-82 Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.5.5 Croda International Recent Developments/Updates

9.5.6 Croda International Competitive Strengths & Weaknesses

9.6 Clariant

9.6.1 Clariant Details

9.6.2 Clariant Major Business

9.6.3 Clariant Quaternium-82 Product and Services

9.6.4 Clariant Quaternium-82 Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.6.5 Clariant Recent Developments/Updates

9.6.6 Clariant Competitive Strengths & Weaknesses

9.7 Solvay / Syensqo

9.7.1 Solvay / Syensqo Details

9.7.2 Solvay / Syensqo Major Business

9.7.3 Solvay / Syensqo Quaternium-82 Product and Services

9.7.4 Solvay / Syensqo Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Solvay / Syensqo Recent Developments/Updates

9.7.6 Solvay / Syensqo Competitive Strengths & Weaknesses

9.8 Nouryon

9.8.1 Nouryon Details

9.8.2 Nouryon Major Business

9.8.3 Nouryon Quaternium-82 Product and Services

9.8.4 Nouryon Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Nouryon Recent Developments/Updates

9.8.6 Nouryon Competitive Strengths & Weaknesses

9.9 Ashland

9.9.1 Ashland Details

9.9.2 Ashland Major Business

9.9.3 Ashland Quaternium-82 Product and Services

9.9.4 Ashland Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Ashland Recent Developments/Updates

9.9.6 Ashland Competitive Strengths & Weaknesses

9.10 Lubrizol

9.10.1 Lubrizol Details

9.10.2 Lubrizol Major Business

9.10.3 Lubrizol Quaternium-82 Product and Services

9.10.4 Lubrizol Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Lubrizol Recent Developments/Updates

9.10.6 Lubrizol Competitive Strengths & Weaknesses

9.11 Innospec

9.11.1 Innospec Details

9.11.2 Innospec Major Business

9.11.3 Innospec Quaternium-82 Product and Services

9.11.4 Innospec Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Innospec Recent Developments/Updates

9.11.6 Innospec Competitive Strengths & Weaknesses

9.12 Kao Chemicals

9.12.1 Kao Chemicals Details

9.12.2 Kao Chemicals Major Business

- 9.12.3 Kao Chemicals Quaternium-82 Product and Services
- 9.12.4 Kao Chemicals Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Kao Chemicals Recent Developments/Updates
- 9.12.6 Kao Chemicals Competitive Strengths & Weaknesses
- 9.13 Seppic
 - 9.13.1 Seppic Details
 - 9.13.2 Seppic Major Business
 - 9.13.3 Seppic Quaternium-82 Product and Services
 - 9.13.4 Seppic Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Seppic Recent Developments/Updates
 - 9.13.6 Seppic Competitive Strengths & Weaknesses
- 9.14 Galaxy Surfactants
 - 9.14.1 Galaxy Surfactants Details
 - 9.14.2 Galaxy Surfactants Major Business
 - 9.14.3 Galaxy Surfactants Quaternium-82 Product and Services
 - 9.14.4 Galaxy Surfactants Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Galaxy Surfactants Recent Developments/Updates
 - 9.14.6 Galaxy Surfactants Competitive Strengths & Weaknesses
- 9.15 KCI Limited
 - 9.15.1 KCI Limited Details
 - 9.15.2 KCI Limited Major Business
 - 9.15.3 KCI Limited Quaternium-82 Product and Services
 - 9.15.4 KCI Limited Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 KCI Limited Recent Developments/Updates
 - 9.15.6 KCI Limited Competitive Strengths & Weaknesses
- 9.16 Guangzhou Tinci Materials Technology
 - 9.16.1 Guangzhou Tinci Materials Technology Details
 - 9.16.2 Guangzhou Tinci Materials Technology Major Business
 - 9.16.3 Guangzhou Tinci Materials Technology Quaternium-82 Product and Services
 - 9.16.4 Guangzhou Tinci Materials Technology Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Guangzhou Tinci Materials Technology Recent Developments/Updates
 - 9.16.6 Guangzhou Tinci Materials Technology Competitive Strengths & Weaknesses
- 9.17 Zhejiang Zanyu Technology
 - 9.17.1 Zhejiang Zanyu Technology Details

- 9.17.2 Zhejiang Zanyu Technology Major Business
- 9.17.3 Zhejiang Zanyu Technology Quaternium-82 Product and Services
- 9.17.4 Zhejiang Zanyu Technology Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Zhejiang Zanyu Technology Recent Developments/Updates
- 9.17.6 Zhejiang Zanyu Technology Competitive Strengths & Weaknesses
- 9.18 Guangzhou DX Chemical
 - 9.18.1 Guangzhou DX Chemical Details
 - 9.18.2 Guangzhou DX Chemical Major Business
 - 9.18.3 Guangzhou DX Chemical Quaternium-82 Product and Services
 - 9.18.4 Guangzhou DX Chemical Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Guangzhou DX Chemical Recent Developments/Updates
 - 9.18.6 Guangzhou DX Chemical Competitive Strengths & Weaknesses
- 9.19 Shanghai Oli Enterprises
 - 9.19.1 Shanghai Oli Enterprises Details
 - 9.19.2 Shanghai Oli Enterprises Major Business
 - 9.19.3 Shanghai Oli Enterprises Quaternium-82 Product and Services
 - 9.19.4 Shanghai Oli Enterprises Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Shanghai Oli Enterprises Recent Developments/Updates
 - 9.19.6 Shanghai Oli Enterprises Competitive Strengths & Weaknesses
- 9.20 Guangzhou Batai Chemical
 - 9.20.1 Guangzhou Batai Chemical Details
 - 9.20.2 Guangzhou Batai Chemical Major Business
 - 9.20.3 Guangzhou Batai Chemical Quaternium-82 Product and Services
 - 9.20.4 Guangzhou Batai Chemical Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Guangzhou Batai Chemical Recent Developments/Updates
 - 9.20.6 Guangzhou Batai Chemical Competitive Strengths & Weaknesses
- 9.21 Guangzhou Startec Science and Technology
 - 9.21.1 Guangzhou Startec Science and Technology Details
 - 9.21.2 Guangzhou Startec Science and Technology Major Business
 - 9.21.3 Guangzhou Startec Science and Technology Quaternium-82 Product and Services
 - 9.21.4 Guangzhou Startec Science and Technology Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Guangzhou Startec Science and Technology Recent Developments/Updates
 - 9.21.6 Guangzhou Startec Science and Technology Competitive Strengths &

Weaknesses

9.22 Hangzhou Linge Technology

9.22.1 Hangzhou Linge Technology Details

9.22.2 Hangzhou Linge Technology Major Business

9.22.3 Hangzhou Linge Technology Quaternium-82 Product and Services

9.22.4 Hangzhou Linge Technology Quaternium-82 Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Hangzhou Linge Technology Recent Developments/Updates

9.22.6 Hangzhou Linge Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Quaternium-82 Industry Chain

10.2 Quaternium-82 Upstream Analysis

10.2.1 Quaternium-82 Core Raw Materials

10.2.2 Main Manufacturers of Quaternium-82 Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Quaternium-82 Production Mode

10.6 Quaternium-82 Procurement Model

10.7 Quaternium-82 Industry Sales Model and Sales Channels

10.7.1 Quaternium-82 Sales Model

10.7.2 Quaternium-82 Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Quaternium-82 Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Quaternium-82 Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Quaternium-82 Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Quaternium-82 Production Value Market Share by Region (2021-2026)
- Table 5. World Quaternium-82 Production Value Market Share by Region (2027-2032)
- Table 6. World Quaternium-82 Production by Region (2021-2026) & (Kilotons)
- Table 7. World Quaternium-82 Production by Region (2027-2032) & (Kilotons)
- Table 8. World Quaternium-82 Production Market Share by Region (2021-2026)
- Table 9. World Quaternium-82 Production Market Share by Region (2027-2032)
- Table 10. World Quaternium-82 Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Quaternium-82 Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Quaternium-82 Major Market Trends
- Table 13. World Quaternium-82 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)
- Table 14. World Quaternium-82 Consumption by Region (2021-2026) & (Kilotons)
- Table 15. World Quaternium-82 Consumption Forecast by Region (2027-2032) & (Kilotons)
- Table 16. World Quaternium-82 Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Quaternium-82 Producers in 2025
- Table 18. World Quaternium-82 Production by Manufacturer (2021-2026) & (Kilotons)
- Table 19. Production Market Share of Key Quaternium-82 Producers in 2025
- Table 20. World Quaternium-82 Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Quaternium-82 Company Evaluation Quadrant
- Table 22. World Quaternium-82 Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Quaternium-82 Production Site of Key Manufacturer
- Table 24. Quaternium-82 Market: Company Product Type Footprint
- Table 25. Quaternium-82 Market: Company Product Application Footprint
- Table 26. Quaternium-82 Competitive Factors
- Table 27. Quaternium-82 New Entrant and Capacity Expansion Plans
- Table 28. Quaternium-82 Mergers & Acquisitions Activity
- Table 29. United States VS China Quaternium-82 Production Value Comparison, (2021

& 2025 & 2032) & (USD Million)

Table 30. United States VS China Quaternium-82 Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Quaternium-82 Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Quaternium-82 Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Quaternium-82 Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Quaternium-82 Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Quaternium-82 Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Quaternium-82 Production Market Share (2021-2026)

Table 37. China Based Quaternium-82 Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Quaternium-82 Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Quaternium-82 Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Quaternium-82 Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Quaternium-82 Production Market Share (2021-2026)

Table 42. Rest of World Based Quaternium-82 Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Quaternium-82 Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Quaternium-82 Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Quaternium-82 Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Quaternium-82 Production Market Share (2021-2026)

Table 47. World Quaternium-82 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Quaternium-82 Production by Type (2021-2026) & (Kilotons)

Table 49. World Quaternium-82 Production by Type (2027-2032) & (Kilotons)

Table 50. World Quaternium-82 Production Value by Type (2021-2026) & (USD Million)

Table 51. World Quaternium-82 Production Value by Type (2027-2032) & (USD Million)

Table 52. World Quaternium-82 Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Quaternium-82 Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Quaternium-82 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Quaternium-82 Production by Product Form (2021-2026) & (Kilotons)

Table 56. World Quaternium-82 Production by Product Form (2027-2032) & (Kilotons)

Table 57. World Quaternium-82 Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Quaternium-82 Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Quaternium-82 Average Price by Product Form (2021-2026) & (US\$/Ton)

Table 60. World Quaternium-82 Average Price by Product Form (2027-2032) & (US\$/Ton)

Table 61. World Quaternium-82 Production Value by Formulation Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Quaternium-82 Production by Formulation Type (2021-2026) & (Kilotons)

Table 63. World Quaternium-82 Production by Formulation Type (2027-2032) & (Kilotons)

Table 64. World Quaternium-82 Production Value by Formulation Type (2021-2026) & (USD Million)

Table 65. World Quaternium-82 Production Value by Formulation Type (2027-2032) & (USD Million)

Table 66. World Quaternium-82 Average Price by Formulation Type (2021-2026) & (US\$/Ton)

Table 67. World Quaternium-82 Average Price by Formulation Type (2027-2032) & (US\$/Ton)

Table 68. World Quaternium-82 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Quaternium-82 Production by Application (2021-2026) & (Kilotons)

Table 70. World Quaternium-82 Production by Application (2027-2032) & (Kilotons)

Table 71. World Quaternium-82 Production Value by Application (2021-2026) & (USD Million)

Table 72. World Quaternium-82 Production Value by Application (2027-2032) & (USD Million)

Table 73. World Quaternium-82 Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Quaternium-82 Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Stepan Company Basic Information, Manufacturing Base and Competitors

Table 76. Stepan Company Major Business

Table 77. Stepan Company Quaternium-82 Product and Services

Table 78. Stepan Company Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Stepan Company Recent Developments/Updates

Table 80. Stepan Company Competitive Strengths & Weaknesses

Table 81. Guangzhou Reachin Chemical Basic Information, Manufacturing Base and Competitors

Table 82. Guangzhou Reachin Chemical Major Business

Table 83. Guangzhou Reachin Chemical Quaternium-82 Product and Services

Table 84. Guangzhou Reachin Chemical Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Guangzhou Reachin Chemical Recent Developments/Updates

Table 86. Guangzhou Reachin Chemical Competitive Strengths & Weaknesses

Table 87. Evonik Industries Basic Information, Manufacturing Base and Competitors

Table 88. Evonik Industries Major Business

Table 89. Evonik Industries Quaternium-82 Product and Services

Table 90. Evonik Industries Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Evonik Industries Recent Developments/Updates

Table 92. Evonik Industries Competitive Strengths & Weaknesses

Table 93. BASF Basic Information, Manufacturing Base and Competitors

Table 94. BASF Major Business

Table 95. BASF Quaternium-82 Product and Services

Table 96. BASF Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. BASF Recent Developments/Updates

Table 98. BASF Competitive Strengths & Weaknesses

Table 99. Croda International Basic Information, Manufacturing Base and Competitors

Table 100. Croda International Major Business

Table 101. Croda International Quaternium-82 Product and Services

Table 102. Croda International Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Croda International Recent Developments/Updates

Table 104. Croda International Competitive Strengths & Weaknesses

Table 105. Clariant Basic Information, Manufacturing Base and Competitors

Table 106. Clariant Major Business
Table 107. Clariant Quaternium-82 Product and Services
Table 108. Clariant Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Clariant Recent Developments/Updates
Table 110. Clariant Competitive Strengths & Weaknesses
Table 111. Solvay / Syensqo Basic Information, Manufacturing Base and Competitors
Table 112. Solvay / Syensqo Major Business
Table 113. Solvay / Syensqo Quaternium-82 Product and Services
Table 114. Solvay / Syensqo Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Solvay / Syensqo Recent Developments/Updates
Table 116. Solvay / Syensqo Competitive Strengths & Weaknesses
Table 117. Nouryon Basic Information, Manufacturing Base and Competitors
Table 118. Nouryon Major Business
Table 119. Nouryon Quaternium-82 Product and Services
Table 120. Nouryon Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Nouryon Recent Developments/Updates
Table 122. Nouryon Competitive Strengths & Weaknesses
Table 123. Ashland Basic Information, Manufacturing Base and Competitors
Table 124. Ashland Major Business
Table 125. Ashland Quaternium-82 Product and Services
Table 126. Ashland Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Ashland Recent Developments/Updates
Table 128. Ashland Competitive Strengths & Weaknesses
Table 129. Lubrizol Basic Information, Manufacturing Base and Competitors
Table 130. Lubrizol Major Business
Table 131. Lubrizol Quaternium-82 Product and Services
Table 132. Lubrizol Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Lubrizol Recent Developments/Updates
Table 134. Lubrizol Competitive Strengths & Weaknesses
Table 135. Innospec Basic Information, Manufacturing Base and Competitors
Table 136. Innospec Major Business
Table 137. Innospec Quaternium-82 Product and Services
Table 138. Innospec Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Innospec Recent Developments/Updates
Table 140. Innospec Competitive Strengths & Weaknesses
Table 141. Kao Chemicals Basic Information, Manufacturing Base and Competitors
Table 142. Kao Chemicals Major Business
Table 143. Kao Chemicals Quaternium-82 Product and Services
Table 144. Kao Chemicals Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Kao Chemicals Recent Developments/Updates
Table 146. Kao Chemicals Competitive Strengths & Weaknesses
Table 147. Seppic Basic Information, Manufacturing Base and Competitors
Table 148. Seppic Major Business
Table 149. Seppic Quaternium-82 Product and Services
Table 150. Seppic Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Seppic Recent Developments/Updates
Table 152. Seppic Competitive Strengths & Weaknesses
Table 153. Galaxy Surfactants Basic Information, Manufacturing Base and Competitors
Table 154. Galaxy Surfactants Major Business
Table 155. Galaxy Surfactants Quaternium-82 Product and Services
Table 156. Galaxy Surfactants Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Galaxy Surfactants Recent Developments/Updates
Table 158. Galaxy Surfactants Competitive Strengths & Weaknesses
Table 159. KCI Limited Basic Information, Manufacturing Base and Competitors
Table 160. KCI Limited Major Business
Table 161. KCI Limited Quaternium-82 Product and Services
Table 162. KCI Limited Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. KCI Limited Recent Developments/Updates
Table 164. KCI Limited Competitive Strengths & Weaknesses
Table 165. Guangzhou Tinci Materials Technology Basic Information, Manufacturing Base and Competitors
Table 166. Guangzhou Tinci Materials Technology Major Business
Table 167. Guangzhou Tinci Materials Technology Quaternium-82 Product and Services
Table 168. Guangzhou Tinci Materials Technology Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Guangzhou Tinci Materials Technology Recent Developments/Updates

Table 170. Guangzhou Tinci Materials Technology Competitive Strengths & Weaknesses
Table 171. Zhejiang Zanyu Technology Basic Information, Manufacturing Base and Competitors
Table 172. Zhejiang Zanyu Technology Major Business
Table 173. Zhejiang Zanyu Technology Quaternium-82 Product and Services
Table 174. Zhejiang Zanyu Technology Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Zhejiang Zanyu Technology Recent Developments/Updates
Table 176. Zhejiang Zanyu Technology Competitive Strengths & Weaknesses
Table 177. Guangzhou DX Chemical Basic Information, Manufacturing Base and Competitors
Table 178. Guangzhou DX Chemical Major Business
Table 179. Guangzhou DX Chemical Quaternium-82 Product and Services
Table 180. Guangzhou DX Chemical Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Guangzhou DX Chemical Recent Developments/Updates
Table 182. Guangzhou DX Chemical Competitive Strengths & Weaknesses
Table 183. Shanghai Oli Enterprises Basic Information, Manufacturing Base and Competitors
Table 184. Shanghai Oli Enterprises Major Business
Table 185. Shanghai Oli Enterprises Quaternium-82 Product and Services
Table 186. Shanghai Oli Enterprises Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Shanghai Oli Enterprises Recent Developments/Updates
Table 188. Shanghai Oli Enterprises Competitive Strengths & Weaknesses
Table 189. Guangzhou Batai Chemical Basic Information, Manufacturing Base and Competitors
Table 190. Guangzhou Batai Chemical Major Business
Table 191. Guangzhou Batai Chemical Quaternium-82 Product and Services
Table 192. Guangzhou Batai Chemical Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Guangzhou Batai Chemical Recent Developments/Updates
Table 194. Guangzhou Batai Chemical Competitive Strengths & Weaknesses
Table 195. Guangzhou Startec Science and Technology Basic Information,

Manufacturing Base and Competitors

Table 196. Guangzhou Startec Science and Technology Major Business

Table 197. Guangzhou Startec Science and Technology Quaternium-82 Product and Services

Table 198. Guangzhou Startec Science and Technology Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Guangzhou Startec Science and Technology Recent Developments/Updates

Table 200. Guangzhou Startec Science and Technology Competitive Strengths & Weaknesses

Table 201. Hangzhou Lingeba Technology Basic Information, Manufacturing Base and Competitors

Table 202. Hangzhou Lingeba Technology Major Business

Table 203. Hangzhou Lingeba Technology Quaternium-82 Product and Services

Table 204. Hangzhou Lingeba Technology Quaternium-82 Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Hangzhou Lingeba Technology Recent Developments/Updates

Table 206. Hangzhou Lingeba Technology Competitive Strengths & Weaknesses

Table 207. Global Key Players of Quaternium-82 Upstream (Raw Materials)

Table 208. Global Quaternium-82 Typical Customers

Table 209. Quaternium-82 Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Quaternium-82 Picture

Figure 2. World Quaternium-82 Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Quaternium-82 Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Quaternium-82 Production (2021-2032) & (Kilotons)

Figure 5. World Quaternium-82 Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Quaternium-82 Production Value Market Share by Region (2021-2032)

Figure 7. World Quaternium-82 Production Market Share by Region (2021-2032)

Figure 8. North America Quaternium-82 Production (2021-2032) & (Kilotons)

Figure 9. Europe Quaternium-82 Production (2021-2032) & (Kilotons)

Figure 10. China Quaternium-82 Production (2021-2032) & (Kilotons)

Figure 11. Japan Quaternium-82 Production (2021-2032) & (Kilotons)

Figure 12. Quaternium-82 Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 15. World Quaternium-82 Consumption Market Share by Region (2021-2032)

Figure 16. United States Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 17. China Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 22. India Quaternium-82 Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Quaternium-82 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Quaternium-82 Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Quaternium-82 Markets in 2025

Figure 26. United States VS China: Quaternium-82 Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Quaternium-82 Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Quaternium-82 Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Quaternium-82 Production Market Share 2025

Figure 30. China Based Manufacturers Quaternium-82 Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Quaternium-82 Production Market Share 2025

Figure 32. World Quaternium-82 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Quaternium-82 Production Value Market Share by Type in 2025

Figure 34. Concentration ? 95%

Figure 35. Concentration Figure 36. World Quaternium-82 Production Market Share by Type (2021-2032)

Figure 37. World Quaternium-82 Production Value Market Share by Type (2021-2032)

Figure 38. World Quaternium-82 Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Quaternium-82 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 40. World Quaternium-82 Production Value Market Share by Product Form in 2025

Figure 41. Liquid

Figure 42. Powder

Figure 43. Paste

Figure 44. World Quaternium-82 Production Market Share by Product Form (2021-2032)

Figure 45. World Quaternium-82 Production Value Market Share by Product Form (2021-2032)

Figure 46. World Quaternium-82 Average Price by Product Form (2021-2032) & (US\$/Ton)

Figure 47. World Quaternium-82 Production Value by Formulation Type, (USD Million), 2021 & 2025 & 2032

Figure 48. World Quaternium-82 Production Value Market Share by Formulation Type in 2025

Figure 49. Rinse-Off Formulations

Figure 50. Leave-On Formulations

Figure 51. World Quaternium-82 Production Market Share by Formulation Type (2021-2032)

Figure 52. World Quaternium-82 Production Value Market Share by Formulation Type (2021-2032)

Figure 53. World Quaternium-82 Average Price by Formulation Type (2021-2032) & (US\$/Ton)

Figure 54. World Quaternium-82 Production Value by Application, (USD Million), 2021 &

2025 & 2032

Figure 55. World Quaternium-82 Production Value Market Share by Application in 2025

Figure 56. Head Care (Conditioners, Shampoos, Styling Aids)

Figure 57. Skin Care (Creams, Lotions, Serums)

Figure 58. Household Cleaners

Figure 59. Industrial Cleaners

Figure 60. Personal Hygiene (Deodorants, Soaps)

Figure 61. World Quaternium-82 Production Market Share by Application (2021-2032)

Figure 62. World Quaternium-82 Production Value Market Share by Application (2021-2032)

Figure 63. World Quaternium-82 Average Price by Application (2021-2032) & (US\$/Ton)

Figure 64. Quaternium-82 Industry Chain

Figure 65. Quaternium-82 Procurement Model

Figure 66. Quaternium-82 Sales Model

Figure 67. Quaternium-82 Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

I would like to order

Product name: Global Quaternium-82 Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GCE46A9090C0EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GCE46A9090C0EN.html>