



Global Bromine Market

Market size, segmentation, competitive landscape and outlook

2021-2031

Moving forward, together



Every one of us has, at some point, heard the line from *Alice in Wonderland*: “It takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast.” Cliché as the quote has become, our world is changing at extraordinary speed. And yet, to my mind, it matters not only to run fast, but — more importantly — to know where you are running.

We see ourselves as the navigator, ready at the right moment to point out the correct course. By providing current, timely information for the decisions that matter, we aim to protect our clients from missteps and to help them find new opportunities.

It matters to us that you are satisfied with the work we have done. If you have any questions about this report, we will be glad to answer them.

ANDREY SHEVCHENKO, Managing Partner

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Market at a glance

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Indicator	Value
Market size (2025)	USD 3.7 bn
Forecast (2031)	USD 5 bn
CAGR (2021-2031)	5.1%
Study period	2021-2031
Largest region	Asia-Pacific · 41.2%
Fastest-growing region	Asia-Pacific · 6.2%
Market concentration	High
Licence	Individual / Company

The global bromine market reached USD XXX billion in 2025 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Fire-safety requirements, high-density clear brine fluids, industrial water treatment and emerging zinc-bromine energy storage applications support demand, while restrictions on legacy brominated substances accelerate portfolio renewal. Asia-Pacific accounted for XX% of 2025 market value, supported by electronics, construction, pharmaceutical and specialty-chemical production. Economically concentrated brine resources in Israel, Jordan and the United States reinforce a highly concentrated upstream supply structure.

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Executive summary

The global bromine market reached USD XXX billion in 2025 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Fire-safety requirements, high-density clear brine fluids, industrial water treatment and emerging zinc-bromine energy storage applications support demand, while restrictions on legacy brominated substances accelerate portfolio renewal. Asia-Pacific accounted for XX% of 2025 market value, supported by electronics, construction, pharmaceutical and specialty-chemical production. Economically concentrated brine resources in Israel, Jordan and the United States reinforce a highly concentrated upstream supply structure.

Indicator	Value
Market size 2025	XXX
Forecast 2031	XXX
CAGR	XXX
Largest region	XXX
Fastest region	XXX

Key findings

- The global bromine market generated USD XXX billion in 2025 and will reach USD XXX billion in 2031.
- Global bromine-equivalent demand totaled XXX metric tons in 2025 and will reach XXX metric tons by 2031.
- Asia-Pacific represented XX% of 2025 market value and will record the fastest regional CAGR at XX%.
- Flame-retardant applications represented approximately XX% of global bromine consumption in 2025, according to Israel Corporation's annual disclosure on ICL.
- Clear brine fluids accounted for approximately XX% of global bromine consumption in 2025, reflecting their role in high-pressure oil and gas well completion.
- ICL produced approximately XXX metric tons of elemental bromine in 2025 from maximum annual capacity of approximately XXX metric tons.
- Jordan produced XXX metric tons of elemental bromine and derivatives in 2024, according to the U.S. Geological Survey.
- U.S. imports of elemental bromine and compounds reached an estimated XXX metric tons of bromine content in 2025, with Israel supplying XX% of 2021-2024 imports.

Market size and forecast

Market value by year, USD bn

Indicator	2026	2027	2028	2029	2030	2031	CAGR
Market value, USD bn	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Market volume	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Production	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Imports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Exports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Apparent consumption	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Year-over-year value change

Indicator	2027	2028	2029	2030	2031	CAGR
Market value	X%	X%	X%	X%	X%	X%
Production	X%	X%	X%	X%	X%	X%
Imports	X%	X%	X%	X%	X%	X%
Exports	X%	X%	X%	X%	X%	X%

Source: XXX

Global Bromine Market Trends and Growth Drivers

Bromine demand is being reshaped rather than displaced. Regulatory action removes persistent legacy compounds, while fire-safety requirements in electrical systems, transportation and buildings sustain demand for reactive, polymeric and lower-migration brominated solutions. Qualification capability and regulatory documentation increasingly determine commercial access.

Supply economics remain anchored in brine quality. Dead Sea concentrates and Arkansas underground brines provide structural advantages in recovery cost, scale and derivative integration, while Indian marine-brine producers are narrowing the gap through larger evaporation systems and captive conversion.

The market's cyclical exposures differ by application. Electronics and construction create inventory volatility, clear brines track technically complex well completions, and water-treatment products produce steadier recurring demand. Zinc-bromine storage adds a high-growth option but will remain smaller than fire safety and oilfield uses through 2031.

Growth drivers

Electrification raises fire-safety intensity

Electric vehicles, charging systems, data centers and compact power electronics increase thermal loads and the value of failure prevention. Brominated formulations retain an efficiency advantage in thin-wall connectors, circuit boards and engineering polymers where limited additive loading is critical.

Complex wells sustain clear brine demand

High-pressure and high-temperature developments require dense, solids-free completion fluids that control formation pressure without damaging productive zones. Calcium, sodium and zinc bromide systems therefore gain value even when overall drilling activity grows modestly.

Data-center and electronics expansion

Server racks, networking equipment, power supplies and semiconductor production require flame-resistant polymers and high-purity specialty intermediates. Capacity investment across the United States and Asia strengthens demand for technically qualified brominated products.

Water-treatment biocide adoption

Bromine-based biocides act rapidly across a wider pH range than many chlorine-only treatments and perform effectively in cooling towers, pools and industrial process water. Water reuse and tighter microbial-control requirements support recurring consumption.

Zinc-bromine storage commercialization

Zinc-bromine flow and hybrid batteries offer non-flammable aqueous electrolytes, deep discharge and long-duration storage capability. Utility, commercial and remote-power deployments create a high-growth outlet for purified zinc bromide and electrolyte services.

Indian downstream integration

Indian producers are converting domestic marine-brine output into clear brines, catalysts, pharmaceutical intermediates and flame retardants. Integration improves supply resilience for Asian buyers and shifts value capture from elemental bromine toward derivatives.

Restraints

Legacy flame-retardant restrictions

The Stockholm Convention, U.S. TSCA rules and the European Chemicals Agency's group-based review restrict or scrutinize persistent brominated substances. Formulators face qualification costs and demand migration away from legacy additive chemistries toward reactive and polymeric alternatives.

End-market inventory cycles

Bromine demand responds quickly to inventory changes in electronics, construction materials and agrochemicals. Destocking reduces utilization and derivative pricing even when long-run fire-safety and industrial demand remains intact.

Concentrated resource exposure

A substantial share of economical output depends on Dead Sea and Arkansas brines and a limited number of production complexes. Weather, logistics, geopolitical disruption or plant outages can tighten merchant availability and interrupt downstream operations.

Energy and compliance costs

Bromine extraction and derivative conversion require chlorine, steam, corrosion-resistant equipment and rigorous containment. Higher energy prices and tighter air, water and worker-protection standards raise the cost of incremental capacity.

Bromine Market Driver and Restraint Impact on the Forecast

Drivers — impact on forecast

Driver	Impact on CAGR	Geography	Horizon
Electrification raises fire-safety intensity	XXX	XXX	XXX
Complex wells sustain clear brine demand	XXX	XXX	XXX
Data-center and electronics expansion	XXX	XXX	XXX
Water-treatment biocide adoption	XXX	XXX	XXX
Zinc-bromine storage commercialization	XXX	XXX	XXX
Indian downstream integration	XXX	XXX	XXX

Source: XXX

Restraints — impact on forecast

Restraint	Impact on CAGR	Geography	Horizon
Legacy flame-retardant restrictions	XXX	XXX	XXX
End-market inventory cycles	XXX	XXX	XXX
Concentrated resource exposure	XXX	XXX	XXX
Energy and compliance costs	XXX	XXX	XXX

Source: XXX

Bromine Market Segmentation by Derivative, Application and End Use

By Derivative

Brominated flame retardants lead because bromine delivers high fire-suppression efficiency in compact polymer and electrical applications. Clear brine fluids form the second-largest derivative group, supported by technically demanding completion operations. Zinc bromide, high-purity inorganic bromides and specialty intermediates will outgrow elemental bromine as producers capture more downstream value.

Value by derivative, USD bn

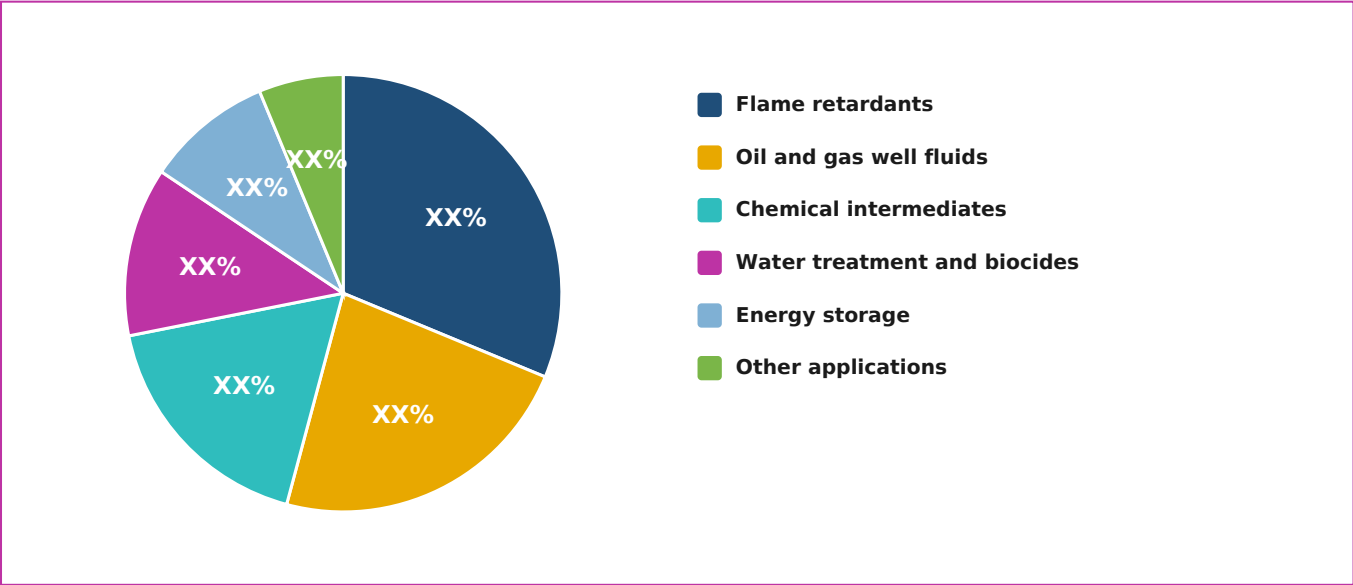
Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Brominated flame retardants	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Clear brine fluids	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Elemental bromine	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Hydrobromic acid and inorganic bromides	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Brominated biocides	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Other bromine derivatives	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Application

Fire-safety applications dominate through electronics, insulation, wire and cable, transportation and industrial components. Oil and gas completion fluids remain the second-largest application and benefit from deeper, higher-pressure wells. Energy storage starts from a smaller base but records the fastest growth as zinc-bromine systems enter long-duration and remote-power projects.

Value share by application, 2025



Source: XXX

Value by application, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Flame retardants	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Oil and gas well fluids	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Chemical intermediates	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Water treatment and biocides	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Energy storage	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Other applications	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By End-use Industry

Electrical and electronics demand is reinforced by circuit density, connectivity, data-center equipment and power conversion. Oil and gas follows closely because completion fluids command high value per unit of bromine. Automotive and energy storage grow fastest as electrification increases fire-safety requirements and creates demand for stationary battery electrolytes.

Value by end-use Industry, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Electrical and electronics	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Oil and gas	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Building and construction	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Pharmaceuticals and agrochemicals	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Automotive and transportation	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Water and industrial processing	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Other end-use industries	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Resource Source

Dead Sea resources lead through ICL's Israeli operations and Jordan Bromine Company's Safi complex. Underground brines in Arkansas give North America a strategic domestic position, while marine and salt-lake projects support India's growing merchant supply. Resource concentration sustains high entry barriers and makes conversion yield, water management and concession security central competitive variables.

Value by resource Source, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Dead Sea brines	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Underground brines	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Seawater and salt-lake brines	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Sales Channel

Large flame-retardant formulators, oilfield-fluid suppliers and specialty-chemical buyers purchase directly under annual or multi-year arrangements. Distributors remain important for laboratory, pharmaceutical, water-treatment and fragmented industrial accounts. Direct contracting will retain share as buyers prioritize traceability and assured allocation.

Value by sales Channel, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Direct sales and captive transfer	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Distributors and agents	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

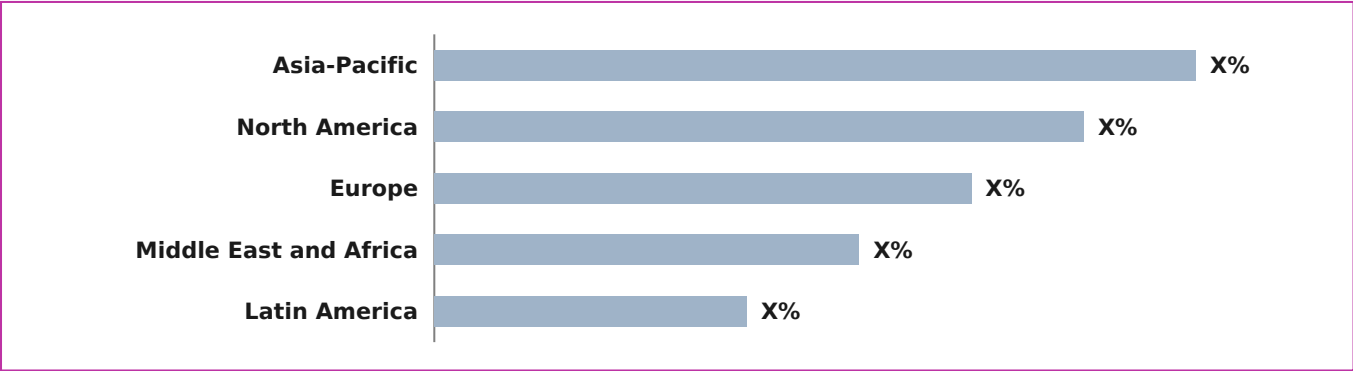
Bromine Market Regional Analysis and Country Outlook

Asia-Pacific led the market with XX% of 2025 value and will expand at XX% annually through 2031. China remains the region's largest consumer through electronics, flame-retardant compounds, pharmaceutical intermediates and water treatment, while resource depletion and environmental enforcement constrain parts of its domestic brine supply. India is the pivotal growth market as Archean Chemical Industries, Neogen Chemicals and other integrated specialists expand merchant bromine and higher-value derivative portfolios.

North America accounted for XX% of 2025 value. Arkansas provides the United States with a strategic domestic resource base, while Gulf Coast energy activity supports clear brine consumption and investments in data centers, electrical equipment and mobility support qualified flame-retardant demand. Europe represented XX%; regulatory substitution reduces legacy additive products but preserves demand for reactive, polymeric and demonstrably lower-migration solutions.

The Middle East and Africa combined resource leadership with XX% of global demand. Israel and Jordan are major export hubs because Dead Sea concentrates offer materially higher bromide content than seawater, and Jordan Bromine Company's operating improvements strengthen supply through 2031. Latin America remains smaller at XX%, with demand concentrated in oilfield fluids, industrial water treatment, mining chemicals and imported specialty derivatives.

Growth rate by region, 2025-2031



Source: XXX

Market value by region, USD bn

Region	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Asia-Pacific	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
North America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Europe	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Middle East and Africa	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Latin America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Market value by leading country, USD bn

Country	2025	2031	Share 2025	CAGR
United States	XXX	XXX	XXX	XXX
Germany	XXX	XXX	XXX	XXX
United Kingdom	XXX	XXX	XXX	XXX
Belgium	XXX	XXX	XXX	XXX
Netherlands	XXX	XXX	XXX	XXX
Japan	XXX	XXX	XXX	XXX
China	XXX	XXX	XXX	XXX
Mexico	XXX	XXX	XXX	XXX

Source: XXX

Bromine Market Competitive Landscape and Company Share

The market is highly concentrated upstream because economical production depends on access to high-bromide brines and large, corrosion-resistant extraction assets. ICL, Albemarle and LANXESS form the principal global supplier group, while Jordan Bromine Company anchors Albemarle's Dead Sea position. Chinese and Indian producers supply most of the remaining merchant volume and compete more aggressively in elemental bromine and selected intermediates.

ICL combines Dead Sea extraction with derivative plants in Israel, Europe and China, using most elemental output internally. Albemarle connects Arkansas resources with its XX% interest in Jordan Bromine Company, while LANXESS competes through a broad brominated and phosphorus-based flame-retardant portfolio. Scale, captive conversion, long-term customer qualifications and logistics redundancy determine share more than spot-price competition.

Competitive investment is moving downstream. Jordan Bromine Company is improving tower capacity and conversion efficiency; Archeon has added elemental and derivative capacity; and Indian specialty-chemical companies are expanding custom bromination and high-purity products. Portfolio renewal centers on polymeric flame retardants, efficient clear brine systems, recycling and application-specific formulations.

Leading companies

Company	HQ	Est. revenue 2025	Market share 2025	YoY
ICL Group Ltd.	XXX	XXX	XXX	XXX
Albemarle Corporation	XXX	XXX	XXX	XXX
LANXESS AG	XXX	XXX	XXX	XXX
Jordan Bromine Company Limited	XXX	XXX	XXX	XXX
Gulf Resources, Inc.	XXX	XXX	XXX	XXX
Tosoh Corporation	XXX	XXX	XXX	XXX
TETRA Technologies, Inc.	XXX	XXX	XXX	XXX
Archeon Chemical Industries Limited	XXX	XXX	XXX	XXX
Neogen Chemicals Limited	XXX	XXX	XXX	XXX
Agrocel Industries Private Limited	XXX	XXX	XXX	XXX

Source: XXX

Global Bromine Market Forecast and Strategic Opportunities

The market will add USD XXX billion between 2025 and 2031. Base-case growth assumes continued electronics and electrical investment, stable oilfield completion demand, gradual construction recovery and commercial progress in stationary batteries. Asia-Pacific captures the majority of incremental revenue, while North America preserves strategic importance through resource security and higher-value applications.

Product mix will move away from restricted legacy molecules toward reactive, polymeric and high-molecular-weight flame retardants with lower migration. Suppliers able to provide toxicology packages, traceability, recycling routes and region-specific regulatory support will gain preferred status in automotive, electrical and building-material accounts.

The strongest returns will accrue to integrated producers that combine secure brine with downstream conversion and technical service. Tight-supply scenarios create disproportionate pricing upside because spare economical capacity is concentrated among a small supplier group, while accelerated substitution scenarios favor diversified companies capable of offering both brominated and phosphorus-based fire-safety systems.

Opportunities

- Polymeric and reactive low-migration flame retardants
- Bromine recovery and closed-loop recycling services
- Zinc-bromine stationary storage systems
- High-purity bromides for semiconductor and pharmaceutical synthesis
- Integrated derivative production in India and Jordan
- Specialized clear brines for deeper and hotter wells

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