

Global CTP Battery Structural Adhesive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CTP Battery Structural Adhesive market size is expected to reach \$ 2407 million by 2032, rising at a market growth of 12.6% CAGR during the forecast period (2026-2032).

CTP battery structural adhesive is a high-performance functional bonding material used in Cell-to-Pack (CTP) battery systems for electric vehicles. It provides structural fixation, vibration damping, sealing, and thermal-assisted management between battery cells, pack housing, and cooling structures. In CTP architectures, module structures are eliminated, so structural adhesives become a critical load-bearing and safety-enabling material ensuring mechanical integrity, durability, and thermal reliability of the battery pack. In 2025, global CTP battery structural adhesive production reached approximately 55.07 Kilotons. The CTP battery structural adhesive industry chain consists of upstream raw materials including epoxy resins, polyurethane resins, silicone materials, thermally conductive fillers (alumina, boron nitride, graphite), and curing agents.

Battery Cell-to-Pack (CTP) structural adhesives are critical functional materials in the evolution of electric vehicle (EV) battery architectures from traditional module-based designs (CTM) toward module-less integration systems (CTP/CTC). These adhesives are primarily used for high-strength bonding between battery cells, pack housings, cooling systems, and structural components, while also providing vibration damping, sealing protection, and partial thermal management functions. With the rapid adoption of CTP technology, the internal architecture of battery packs has been simplified from a three-layer structure (cell?module?pack) to a two-layer structure (cell?pack). As a result, structural adhesives have evolved from auxiliary materials into key load-bearing and safety-critical components within the battery system. This transition significantly raises performance requirements, including high mechanical strength, thermal cycling

resistance, flame retardancy, and thermal conductivity compatibility.

This report studies the global CTP Battery Structural Adhesive production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global CTP Battery Structural Adhesive total production and demand, 2021-2032, (Kilotons)

Global CTP Battery Structural Adhesive total production value, 2021-2032, (USD Million)

Global CTP Battery Structural Adhesive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global CTP Battery Structural Adhesive consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: CTP Battery Structural Adhesive domestic production, consumption, key domestic manufacturers and share

Global CTP Battery Structural Adhesive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global CTP Battery Structural Adhesive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global CTP Battery Structural Adhesive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global CTP Battery Structural Adhesive 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 3M, Henkel, Sika, H.B. Fuller, Huitian, Darbond Technology, Kangda New Materials, Arkema (Bostik), DuPont, Parker LORD, 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 CTP Battery Structural Adhesive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 CTP Battery Structural Adhesive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CTP Battery Structural Adhesive Market, Segmentation by Type:

Structural Load-Bearing Adhesive

Thermally Conductive Structural Adhesive

Vibration Damping Adhesive

Sealing & Protection Adhesive

Global CTP Battery Structural Adhesive Market, Segmentation by Chemistry System:

Epoxy Structural Adhesive

Polyurethane Adhesive

Silicone Structural Adhesive

Acrylic Structural Adhesive

Global CTP Battery Structural Adhesive Market, Segmentation by Performance Type:

High Strength Adhesive

Flame Retardant Adhesive

Thermally Conductive Adhesive

Global CTP Battery Structural Adhesive Market, Segmentation by Location:

Cell-to-Baseplate Bonding

Cell-to-Pack Housing Fixation

Cooling Plate Interface Adhesive

Electrical Busbar Structural Bonding

Global CTP Battery Structural Adhesive Market, Segmentation by Application:

Passenger EV Battery

Commercial EV Battery

Energy Storage System

Industrial Power Battery

Companies Profiled:

3M

Henkel

Sika

H.B. Fuller

Huitian

Darbond Technology

Kangda New Materials

Arkema (Bostik)

DuPont

Parker LORD

Key Questions Answered:

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

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