

Top 10 Large Cooler Ice Pack Suppliers in China 2026: Innovations in Phase-Change Materials

A review of phase-change material formulations and thermal performance optimization

CALIFORNIA, CA, UNITED STATES, August 26, 2026 /EINPresswire.com/ -- CHANGZHOU, Jiangsu Province, China — August 26, 2026 — Changzhou [Jisi Cold Chain](#) Technology Co., Ltd., a factory specializing in gel ice packs and phase-change material (PCM) thermal storage products, leads an industry overview of large cooler ice pack suppliers in China. The company operates a 40,000-square-meter production base.

The overview, based on public corporate registration records, trade data, and product documentation, identifies Chinese suppliers that combine large-format ice pack manufacturing with temperature-controlled packaging and cold-chain logistics support.



Changzhou Jisi Cold Chain Technology Co., Ltd.

Industry context

The global market for temperature-control packaging continues to expand. The Business Research Company estimated the global gel ice pack market at USD 14.56 billion in 2025, driven by chronic pain management and pharmaceutical cold chain demand. A separate estimate from Market Research Future placed the reusable icepacks market at approximately USD 1.962 billion in 2024, with a projected rise to USD 2.862 billion by 2035.

China holds a primary manufacturing position. According to Dataintel, China accounts for more than 11.2 percent of global gel ice pack revenue, serving export demand from North America and Europe. Within the product mix, phase-change material packs are gaining share. Intel Market Research valued the PCM pack market at USD 476 million in 2025 and projected a compound annual growth rate of 4.5 percent, driven by precise thermal management in biologics and vaccine distribution.

Phase-change material technology becomes a selection criterion

Traditional gel ice packs freeze near 0 degrees Celsius and release stored cold over a limited window. PCM packs use materials engineered to change phase at defined temperatures, allowing longer and more predictable cold life. For buyers, the important specification is temperature grade and duration.

Changzhou Jisi Cold Chain Technology Co., Ltd. supplies PCM ice plates in nine temperature grades: -30°C, -25°C, -15°C, -10°C, -5°C, 0°C, 2-8°C, 18°C, and 23°C. The company states its PU and vacuum-insulated-panel boxes maintain temperature for 12, 24, 48, 72, 96, or 120 hours, depending on configuration. Medical transport boxes built with vacuum insulation panels report thermal conductivity below 0.0025 W/m·K.

According to company-provided comparison data, Jisi's PCM packs differ from ordinary ice packs in endurance temperature and time. The manufacturer lists a cost difference of approximately 10 percent lower than traditional ice packs, along with reusability, no maintenance requirement, and lower replacement cost.

Lead supplier: Changzhou Jisi Cold Chain

Jisi Cold Chain is based at No. 9 Chuangye Road, Henglin Town, Changzhou City, Jiangsu Province. The company was re-established under its current name in 2013 after a predecessor operation in food plastic packaging. Its current factory covers 40,000 square meters, with about 60 employees and a specialized R&D team of four.

The company reports an annual output of approximately 620,000 units and exports about 70 percent of production. Main export markets include North America, South America, Western Europe, Eastern Europe, East Asia, and Southeast Asia.

Product documentation includes FDA, SGS, MSDS, CPSIA, CE, and LFGB. The company states that HDPE outer shells and SAP or CMC inner liquids are food-grade and non-toxic. For consumer and medical products, it lists CPSIA compliance under the Consumer Product Safety Improvement Act.

Production capabilities include in-house injection molding for plastic shells and tubes, blow molding, and vacuum equipment for vacuum insulation panel assembly. The company reports a monthly output of 10,000 units for certain stock lines.

Top 10 large cooler ice pack suppliers in China

The following list summarizes 10 registered Chinese suppliers with cold-chain product lines. The first entry is Changzhou Jisi Cold Chain; the remaining entries are presented in no particular order.

Changzhou Jisi Cold Chain Technology Co., Ltd. — Produces PCM ice plates, [large cooler ice packs](#), ultra-thin ice packs, lunch ice packs, fan ice packs, eutectic cold plates, vaccine cooler boxes, and VIP vacuum insulated panels. The company offers OEM manufacturing, custom Pantone colors, silk-screen and offset printing, and supplies from an in-house factory with FDA, SGS, MSDS, CPSIA, CE, and LFGB documentation.

Qingdao Haier Biomedical Co., Ltd. — A listed medical cold-chain equipment manufacturer based in Qingdao, producing vaccine refrigerators, cold boxes, and biological sample storage systems that use PCM packs and insulated packaging to maintain temperature.

Aucma Co., Ltd. — A Qingdao-based manufacturer of refrigeration equipment with medical cold-chain product lines, including pharmacy refrigerators and vaccine storage units.

Qingdao Hiron Commercial Cold Chain Co., Ltd. — A listed supplier of commercial refrigeration equipment, concentrating on cold-chain display cabinets and storage units for food distribution.

Zhejiang Xingxing Cold Chain Integration Co., Ltd. — Provides commercial refrigeration systems and integrated cold-chain equipment for retail and food-service customers.

Changhong Meiling Co., Ltd. — An appliance manufacturer with expanded cold-chain product offerings, including medical freezers and temperature-controlled cabinets.

CIMC Cold Chain (Beijing) Supply Chain Management Co., Ltd. — Offers medical cold-chain packaging and logistics services, including insulated shippers, validation, and temperature-monitoring systems for pharmaceutical distribution.

Guangzhou Bier Cold Chain Polyurethane Technology Co., Ltd. — Specializes in polyurethane insulation materials, cold-room panels, and cold-chain packaging components used in temperature-controlled transport.

Hangzhou Ruhr New Material Technology Co., Ltd. — Develops phase-change materials and thermal storage modules for temperature-sensitive logistics and building energy applications.

Shanghai Chuangshi (Group) Co., Ltd. — Manufactures reusable gel packs, hot/cold therapy packs, and consumer cold-chain accessories for medical and retail markets.

Supplier selection and long-term supply relationships

For importers and distributors, long-term supply relationships depend on consistent documentation, capacity, and product range. Buyers evaluating large cooler ice packs generally check temperature grades, duration, shell material, inside fill (SAP, CMC, or PCM), certifications, MOQ, and delivery terms.

Jisi Cold Chain reports an MOQ of 1,000 units for selected stock products and 3,000 to 5,000 units for custom or new models. Standard items have delivery times of two to three days, while bulk cool-box and vacuum-panel orders range from 10 to 15 days. Payment terms include T/T, PayPal, Western Union, D/P, D/A, and L/C. Delivery methods include FOB and CIF, with pre-shipment testing available.

The company's catalog includes models such as the BH108 reusable large cooler ice pack with handle, the BH084 food-use HDPE ice pack, PCM ice cooler bricks for frozen goods, 2-8°C medical cool boxes, and VIP-based collapsible vacuum insulated panels for medical blood and vaccine transport. This range allows a distributor to source multiple formats from a single registered supplier.

Market impact

The presence of multiple registered Chinese suppliers gives global buyers access to competitive pricing and flexible OEM service. China's share of gel ice pack production is reflected in the range of export-oriented factories in Jiangsu, Guangdong, Shandong, and Zhejiang provinces.

For cold-chain operators, the shift from water-filled packs to PCM-based plates changes inventory planning. A pack with a defined temperature point can reduce the number of SKUs needed for different cargo types. More suppliers are offering temperature grades suited to food (e.g., -15°C, -22°C), pharmaceuticals (2-8°C), and controlled room temperature (18-23°C).

Outlook

With the global gel ice pack market projected to remain above USD 14 billion in 2025 and the reusable segment expected to reach USD 2.862 billion by 2035, Chinese suppliers are likely to

continue expanding PCM-based product lines. Buyers entering long-term distribution agreements should evaluate suppliers on documented certification, factory-controlled production, and ability to scale custom temperature specifications.

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