

Active Insulation Market Set to Soar: Rising Demand Drives Robust Growth Through 2031

WILMINGTON, DE, UNITED STATES, August 14, 2025 /EINPresswire.com/ -- The rising demand for active insulated protective pants among mountaineers and defense personnel, coupled with increasing use of active insulation in textiles and the construction industry, is propelling the global market forward.

According to a report by Allied Market Research, "[Active Insulation Market](#) By Material (Polyester, Cotton, Wool, Nylon, Glass Wool, Expanded Polystyrene), By Application (Textile, Building and Construction): Global Opportunity Analysis and Industry Forecast, 2021-2031", the global active insulation market was valued at \$288.5 million in 2021 and is projected to reach \$512.8 million by 2031, registering a CAGR of 5.9% from 2022 to 2031.



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Market Dynamics

Drivers:

- Surge in demand for protective clothing in mountaineering and military applications.
- Growing adoption of active insulation in thermal-protected textiles and energy-efficient building construction.

Restraints:

- High retrofitting costs for buildings.
- Risks related to interstitial condensation.

Opportunities:

- Expanding use of protective textiles for extreme temperature environments.

Segment Insights

By Application:

- Textile Segment: Expected to record the highest CAGR of 6.2% due to demand in protective wear for climbers and defense forces.
- Building & Construction Segment: Accounted for two-thirds of total revenue in 2021, dominating due to widespread use in thermal insulation for buildings.

By Material:

- Polyester Segment: Largest share in 2021 (over one-fourth) owing to high usage in protective textiles for defense.
- Expanded Polystyrene Segment: Forecast to grow at the highest CAGR of 6.7%, driven by its lightweight, durability, and energy efficiency.

Regional Insights

- Europe: Largest market in 2021 (over one-third share) due to strong defense demand and advanced textile manufacturing.
- Asia-Pacific: Expected to post the fastest CAGR of 7.2%, driven by growing use of nylon-based active insulation in trekking and adventure gear.

Key Players:

BASF SE, Hdwool Ltd., Invista Textiles, The 3M Company, Polartec LLC, Polybond Insulation Pvt. Ltd., Remmers, Stoney Creek Ltd., Toray Industries Inc., W.L. Gore & Associates.

For more information on this report, visit our website at <https://www.alliedmarketresearch.com/active-insulation-market/purchase-options>

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