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U.S. Thoracic Catheter Market Size, Share & Trends Analysis Report By Material (PVC, Silicone), By Product Type, By End Use, By Application, And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. thoracic catheter market size was estimated at USD 164.28 million in 2024 and is projected to reach USD 269.05 million by 2033, growing at a CAGR of 5.73% from 2025 to 2033. This growth is driven by the rising prevalence of respiratory disorders, traumatic injuries, and postoperative complications that require efficient thoracic drainage solutions, along with the increasing demand for minimally invasive procedures that improve patient recovery times.

Advancements in catheter materials, such as silicone-based and antimicrobial-coated designs, are further enhancing safety and clinical outcomes, supporting higher adoption across hospitals and specialty clinics.

Chronic obstructive pulmonary disease is a significant driver of the U.S. thoracic catheter industry, as the condition often leads to complications such as pneumothorax, pleural effusion, and severe respiratory distress that require timely thoracic drainage. As COPD prevalence continues to rise due to aging populations, prolonged exposure to environmental pollutants, and high smoking rates, healthcare facilities are increasingly relying on thoracic catheters to manage these acute exacerbations and improve patient outcomes. Thoracic catheters play a critical role in relieving trapped air or fluid in the pleural space, enabling better lung expansion and respiratory function in COPD patients. The growing clinical need for efficient, minimally invasive drainage solutions in emergency care, intensive care units, and pulmonology practices directly supports higher utilization of advanced thoracic catheter systems, thereby accelerating overall market growth.

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Traumatic injuries are a major factor driving the growth of the U.S. thoracic catheter industry, as chest trauma frequently leads to life-threatening conditions such as pneumothorax, hemothorax, and pleural effusion that require immediate thoracic drainage. Road accidents, falls, sports-related injuries, and workplace trauma often damage the ribs, lungs, or pleural cavity, creating an urgent need for chest tube placement to restore respiratory function and stabilize the patient. With trauma cases remaining a leading cause of emergency department admissions, hospitals increasingly depend on thoracic catheters for rapid decompression and effective fluid or air evacuation. The rise in high-impact injuries, coupled with improved trauma care protocols and expanding emergency medical services, is boosting the adoption of advanced catheter designs that offer safer insertion, lower infection risk, and quicker patient management.

According to the National Highway Traffic Safety Administration (NHTSA), an estimated 17,140 people lost their lives in motor vehicle crashes from January through June 2025, down from 18,680 fatalities during the same period in 2024.

U.S. Thoracic Catheter Market Report Segmentation

This report forecasts revenue growth at the country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. thoracic catheter market report based on the material, product type, application, and end-use:

Product Type Outlook (Revenue, USD Million, 2021 - 2033)

Thoracostomy Tubes

Pleural Drainage Catheters

Others

Material Outlook (Revenue, USD Million, 2021 - 2033)

Silicone

Polyurethane

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PVC

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Pneumothorax

Pleural Effusion

Hemothorax

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Specialty Clinics

Ambulatory Surgical Centers (ASCs)

Others

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