Metal Cutting Gas Market Report: Opportunities and Challenges Across Regions

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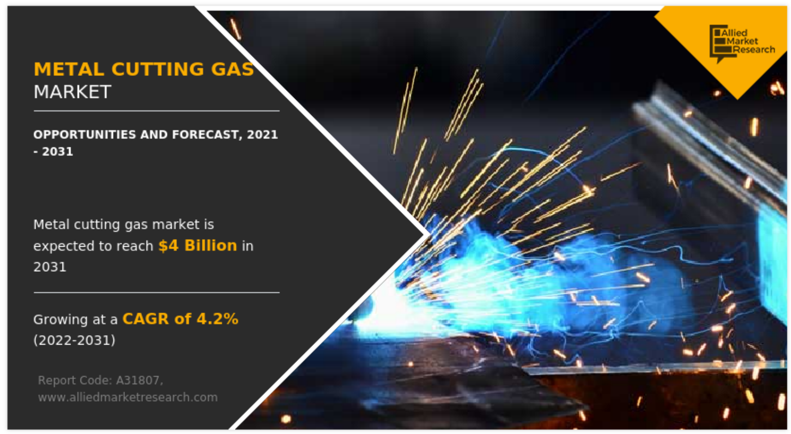

Metal Cutting Gas Market End Use

WILMINGTON, DE, UNITED STATES, November 25, 2025 / EINPresswire.com/ -- The steady rise in global population, combined with rapid urbanization, has significantly boosted construction activities worldwide. Metal-cutting gases play a crucial role in this sector, as they are widely used for cutting, welding, and shaping steel components an essential requirement in modern infrastructure development. This growing dependence on metal-processing technologies continues to drive the expansion of the global metal cutting gas market.

According to the study, the global metal cutting gas market generated $2.7 billion in 2021 and is projected to reach $4.0 billion by 2031, registering a CAGR of 4.2% from 2022 to 2031.

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Prime Determinants of Growth:-

- Rapid urbanization and rising population levels continue to spur growth in the construction sector across both developed and emerging economies. As metal-cutting gases are extensively used for welding, cutting, and designing steel structures, these trends directly fuel market demand.

- However, the market faces challenges such as limited technical expertise and a growing preference for high-end, advanced metal-cutting machinery, which may restrain adoption.

- On the other hand, rising demand for processing carbon steel and low-alloy materials across the aerospace, automotive, metal fabrication, and industrial sectors is creating promising growth opportunities.

Segment Highlights:-

Acetylene Segment – Leading and Fastest Growing

- By gas type, the acetylene segment held the largest market share in 2021—nearly two-fifths of the global market and is anticipated to maintain its dominance through 2031. It is also projected to record the highest CAGR of 4.5% during the forecast period. Acetylene's exceptionally hot flame temperature makes it the preferred choice for various industrial applications.

Metal & Metal Fabrication Segment – Market Leader

- Based on end use, the metal and metal fabrication segment accounted for nearly one-third of the market in 2021 and is expected to retain its lead through 2031. The increasing adoption of prefabricated building components and ongoing infrastructure development are key contributors to this growth.
Meanwhile, the aerospace segment is forecasted to grow the fastest, registering a CAGR of 4.6% during the analysis period.

Regional Insights:

- The Asia-Pacific region dominated the market in 2021, contributing nearly half of global revenue, and is projected to maintain its leadership with the fastest CAGR of 4.6% through 2031. The region's strong industrial base, increasing construction activity, and rising manufacturing capacity for metal-cutting gases underpin this growth.

- Notably, Indian Oil Corporation Ltd. introduced Indane NANOCUT, an advanced LPG-based cutting gas offering higher flame temperature, lower oxygen consumption, and reduced cylinder usage enhancing user efficiency and contributing to regional market expansion.

Key Market Players:

- TotalEnergies SE
- Hornet Cutting Systems
- Ador Welding Limited
- Bharat Petroleum Corporation Limited
- LEVSTAL
- NISSAN TANAKA CORPORATION
- Indian Oil Corporation Ltd.
- Haco
- Brothers Gas

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