

Trimethylsilyl Hydride Market, Global Outlook and Forecast 2022-2028

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Abstracts

Trimethylsilane or trimethylsilyl hydride, is a gas at ambient conditions with the formula $C_3H_{10}Si$. It is very flammable. Trimethylsilane is used in the semi-conductor industry as precursor to deposit dielectrics and barrier layers via plasma-enhanced chemical vapor deposition (PE-CVD). It is also used a source gas to deposit TiSiCN hard coatings via plasma-enhanced magnetron sputtering (PEMS). It has also been used to deposit silicon carbide hard coatings via low-pressure chemical vapor deposition (LP-CVD) at relatively low temperatures

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