Middle East & Africa Antifreeze Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Coolant Type (Ethylene Glycol, Propylene Glycol, and Glycerin and Others), Technology (Inorganic Additive Technology, Organic Acid Technology, and Hybrid Organic Acid Technology and Others), Application (Automobiles, Industrial Heating/Cooling, Energy, and Manufacturing and Others), and Distribution Channel [Original Equipment Manufacturers (OEMs), Aftermarket, and Retail and Others]

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AVAILABLE LICENSES:

- Single User Price $3000.00
- Site Price $4000.00
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Report description:

The MEA antifreeze market is expected to grow from US$ 275.54 million in 2022 to US$ 362.46 million by 2028. It is estimated to grow at a CAGR of 4.7% from 2022 to 2028.

Environment-Friendly and Bio-Based Antifreeze
Bio-based antifreeze is formed with biodegradable and renewable base stocks. Being biodegradable, it is mostly used in end-use industries such as automotive, industrial heating, and manufacturing. Bio-based antifreeze is produced from renewable and sustainable substitutes of raw materials compared to conventional chemical-based antifreeze. Bio-based antifreeze also helps reduce carbon footprint. Further, bio-based antifreeze provides better lubrication and has superior viscosity performance. It also provides good thin film strength, low volatility, and high flash point. Bio-based antifreeze always has a high degree of lubricity to reduce friction when used in construction equipment or the automotive industry. This reduced friction results in lower cutting forces, less heat generation during metalworking, and faster tool feed. Reduced friction reduces wear and extends the life of

grinding wheels and cutting tools. In addition to the above factors, bio-based antifreeze lubrications have a much higher flash point than oils, resulting in higher feed rates and lower smoke, and less smoky metal cutting environments. These oils also have a more polar attraction to metals than petroleum-based fluids, which are nonpolar to metals. The polarity of the bio-based antifreeze lubricant provides more effective thin film protection and metal affinity for the cutting tool equipment. Prominent and well-established market players are launching innovative bio-based antifreeze products. They are launching innovative and environment-friendly liquid coolants, such as biodegradable coolants and natural antifreeze, providing performance advantages, low viscosity, and high corrosion protection. Furthermore, companies are constantly testing new-coolant technologies that are less costly than conventional propylene glycol and can improve the working environment for operators. All these factors are creating lucrative opportunities for bio-based and environment-friendly antifreeze coolants.

Market Overview

TheMEA antifreeze market is segmented into South Africa, Saudi Arabia, the UAE, Kuwait, and the Rest of MEA. The growing automotive sales in South Africa and Saudi Arabia are creating a significant demand for antifreeze. Further, Gulf countries are stepping up the transition to renewable energy by launching ambitious infrastructure projects designed to help them reduce their reliance on oil and gas to meet domestic energy needs. To meet net-zero targets, Gulf states are diversifying their economies into solar energy production. Saudi Arabia is also focusing on various projects to expand its total solar energy capacity. This is creating a demand for antifreeze, as it is used in solar water heating systems as a heat transfer fluid.

MEA Antifreeze Market Revenue and Forecast to 2028 (US$ Million)

MEA Antifreeze Market Segmentation

The MEA antifreeze market is segmented based on coolant type, technology, application, distribution channel, and country. Based on coolant type, the MEA antifreeze market is segmented into ethylene glycol, propylene glycol, and glycerin and others. The ethylene glycol segment held the largest market share in 2022. Based on technology, the MEA antifreeze market is segmented into inorganic additive technology, organic acid technology, and hybrid organic acid technology and others. The organic acid technology segment held the largest market share in 2022. Based on application, the MEA antifreeze market is segmented into automobiles, industrial heating/cooling, energy, and manufacturing and others. The automobiles segment held the largest market share in 2022. Based on distribution channel, the MEA antifreeze market is segmented into original equipment manufacturers (OEMs), aftermarket, and retail and others. The aftermarket segment held the largest market share in 2022. Based on country, the MEA antifreeze market has been categorized into the UAE, Saudi Arabia, South Africa, and rest of MEA. Our regional analysis states that South Africa dominated the market share in 2022. BASF SE, Chevron Corporation, Dow Inc., Exxon Mobil Corporation, Old World Industries, Prestone Products Corporation, Shell plc, Valvoline LLC, and Wacker Chemie AG are the leading companies operating in the MEA antifreeze market.

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