Antifreeze Market by Product (Ethylene Glycol, Propylene Glycol, & Glycerine), Coolant Additive Market by Technology (IAT, OAT, Hoat); Automotive and Coolant Aftermarket by Technology & Vehicle Type, & Region - Global Trends & Forecast to 2020

Description: Heat exchange between the engine and its surroundings is one of the major concerns in performance and efficiency of an internal combustion engine. Water-cooled engines use heat transfer fluid or coolant to remove the excess heat from the engine and prevent it from overheating. The engine coolant is basically the combination of water, antifreeze, and other additives blended together. Ethylene glycol is most preferred base for automotive engine coolants. However, other coolant base fluids such as propylene glycol and glycerin also exist in the market providing less toxic and environmental benefits.

The antifreeze lowers the freezing point as well as increases boiling point of the coolant to provide extra protection against freezing of the coolant or overheating of the engine. Several other corrosion inhibitors are added to the antifreeze or coolant, to improve performance and efficiency. These additives can be inorganic salts, organic acids, or combination of both.

The automotive antifreeze has growth potential in the global market with the rising demand for automobiles across the world. The aftermarket is the largest market of engine coolants. The aftermarket demand for engine coolant largely depends on the average service life of the coolant, vehicle parc, and miles driven per year. According to a recent publication by the OICA, the global vehicle parc reached 1,183.2 Million units in 2013 and is projected to grow in the near future, fueling the demand for engine coolant. Asia-Oceania is projected to dominate the engine coolant market from 2015 to 2020, as it has the highest vehicle production as well as vehicle parc. Growing middle class, rising disposable income, and developing road transport infrastructure are other factors fueling the demand for automotive engine coolant in Asia-Oceania region.

The antifreeze market for automotive comprises of large number of global as well as local players, which has intensified the competition at the global level. Major market players include BP Plc. (U.K.), Chevron Corp. (U.S.), ExxonMobil Corp. (U.S.), Total S.A. (France), and Royal Dutch Shell Plc. (The Netherlands).

Scope of the Report

The antifreeze market for automotive is broadly categorized into the following segments and subsegments:

- Automotive antifreeze market, by product
  - Ethylene glycol
  - Propylene glycol
  - Glycerin
- Automotive antifreeze market, by vehicle type
  - Passenger cars
  - Light commercial vehicles
  - Heavy commercial vehicles
- Automotive coolant additives market, by technology
  - Inorganic acid technology (IAT)
  - Organic acid technology (OAT)
  - Hybrid organic acid technology (HOAT)
- Automotive engine coolant aftermarket, by vehicle type and technology
  - Passenger cars
    - IAT coolant
    - OAT coolant
    - HOAT coolant
  - LCVs
    - IAT coolant
    - OAT coolant
    - HOAT coolant
  - HCVs
- IAT coolant
- OAT coolant
- HOAT coolant
- Automotive antifreeze market, by region
  - Asia-Oceania (China, Japan, South Korea, India, and Rest of Asia-Oceania)
  - Europe (Germany, U.K., France, and Rest of Europe)
  - North America (U.S., Canada, and Mexico)
  - RoW (Brazil, Russia, and Others)

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