Cetane Number Improver (2-EHN) Market Analysis: By Diesel Type (Petroleum Diesel and Biodiesel); By Market Type (Direct Market and After Market) and By Region - With Forecast (2015 - 2020)

Description: Cetane number is an evaluation of combustion quality of diesel fuel during compression ignition. Combustion is not an immediate process after fuel injection which leads to ignition delay. An increase in cetane number reduces the delay between injection and ignition of fuel. In diesel engine, cetane number requirements are based upon various factors such as engine design, speed, size and load variations on starting and atmospheric conditions.

Cetane number improver is a type of additive which increases the cetane number of diesel fuel. Cetane number improvers are of several types such as nitrates, peroxides and others. Nitrates and peroxides are sub classified into two types such as 2-ethylhexyl nitrate and di-tertiary butyl peroxide respectively.

The scope of the report includes only 2-ethylhexyl nitrate as it is most widely used in the market as cetane number improvers. Cetane number improver (2-EHN) can be added in different stages such as in oil-refinery, tank farms, fuel distribution system and as aftermarket products. Cetane number improvers are used in both petroleum diesel and bio diesel. Cetane number improvers are used across several industries such as oil-refinery, automotive manufacturing, agricultural, marine, power-generators and others. Others include locomotives, railway and military transportation. Diesel engines operating on low cetane number diesel fuel delays ignition, noisy, emit white smoke and hydrocarbon pollutants and consume extra fuel than required. These types of diesel fuels have presence of large amount aromatics and fewer amounts of alkanes, alkenes and naphthenes. The main factor owing to growth of this market is stringent emission control regulations on diesel fuels to control environmental pollution. Government authorities across the world framed some standards for having minimum cetane number in diesel fuel. Cetane number depends upon various factors such as choice of crude oil, refinery processing, blending of diesel and the treat rate of additives. Cetane number standards are difficult to meet if the crude oil quality is low. Hence, cetane number improvers (CNI) are being added to increase the cetane value of diesel for efficient use and also help in reduction of gases such as NOx (notably from heavy-duty engines), CO, particulate matter and acetaldehyde emissions (notably from light-duty engines).

In terms of market type, oil-refinery market accounts around 88% of the global cetane number improver market followed by after-market. Companies like Innospec Inc., VeryOne (Eurenco), NitroERG, EPC-UK, Kutch chemicals and many more are major suppliers of cetane number improver in oil-refinery market.

The overall market is also presented from the perspective of different geographic regions and the key countries in each region. The market has been segmented into four regions namely North America, Europe, Asia-Pacific and Rest of the World. Competitive landscape for industry and market players are profiled with attributes of company overview, financial overview, business strategies, product portfolio and recent developments.

The key players profiled in this report include like: Innospec Inc. VeryOne (Eurenco) NitroERG EPC-UK Kutch chemicals and others.

Innospec Inc. and EPC-UK PLC hold major market followed by VeryOne (Eurenco Limited), NITROERG SA, Kutch Chemicals Limited and others.

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