



Non-Aqueous Based Coolants

CASE STUDY

January 17, 2024

In-Depth Analysis of Non-Aqueous Coolants: Examining Base Fluids, Scouting Applications, Analyzing Additives, and Forecasting Market Trends



Business Objective

Non-aqueous coolants are reshaping industry standards, improving functionality, and enhancing safety. The client's objective was to pinpoint the base fluids utilized in the composition of non-aqueous coolants, identify key application sectors, scrutinize additives used in the composition of non-aqueous coolants, and forecast market trends for these innovative coolants.



Project Breakthroughs

Our meticulous research approach enabled the client to thoroughly examine the non-aqueous coolants sector, providing a nuanced insight into the dynamics of this specific market. The study aimed to address key business inquiries :

- Who are the primary suppliers dominating the non-aqueous coolant market?
- What are the different base fluids used in composition of non-aqueous coolants (e.g. hydrocarbon, silicone, ethylene glycol etc.) ?
- What additive technologies are commonly used, and which specific additives are employed in non-aqueous coolant formulations to enhance performance?
- What are the advantages associated with transitioning to non-aqueous based coolants?
- What are the price point variations of non aqueous coolants in major geographies (e.g. America, APAC, Europe etc.) ?
- What are year on year growth and CAGR of coolants and who are the key players operating in this market?

Wissen APPROACH

The Wissen research team gathered data from diverse databases to explore non-aqueous-based coolants, aligning with our client's specific needs. To deliver valuable insights, we applied a structured solution framework as follows:

Services Provided

Problem Solution Analysis

The analysis **highlighted various concerns** associated with **aqueous-based coolants**, encompassing high boiling points, low freezing points, corrosion, heat exchange inefficiencies, toxicity, and more. A meticulous **patent analysis** revealed **distinct solutions to address these issues**.

The **comprehensive assessment** of problem solution analysis aided client in **understanding the shift** from **aqueous-based coolants to non-aqueous alternatives**.

Technology Analysis

The analysis answered various questions :

- **Various Types of Bases Utilized**- hydrocarbon, silicon, ethylene glycol, propylene glycol, and glycerin. Hydrocarbon is the most common base fluid used in preparation of non aqueous coolants.
- **Application Areas** – Automotive, IT, Electrical etc.
- **Suppliers** – Dow, Lubrizol, Shell, BASF etc.
- **Common Additives** – Corrosion Inhibitors , pH Stabilizers (such as alkali metal hydroxide) , Antifoam Additives (such as silicone, Glyceryl ether)

Technology intelligence through product and patent analysis played a pivotal role in empowering the client with valuable information for **strategic decision-making**. It empowered them with a strategic edge that resulted in **improved product outcomes, a stronger position in the market, and fortified partnerships**.

Projection/ Market Analysis

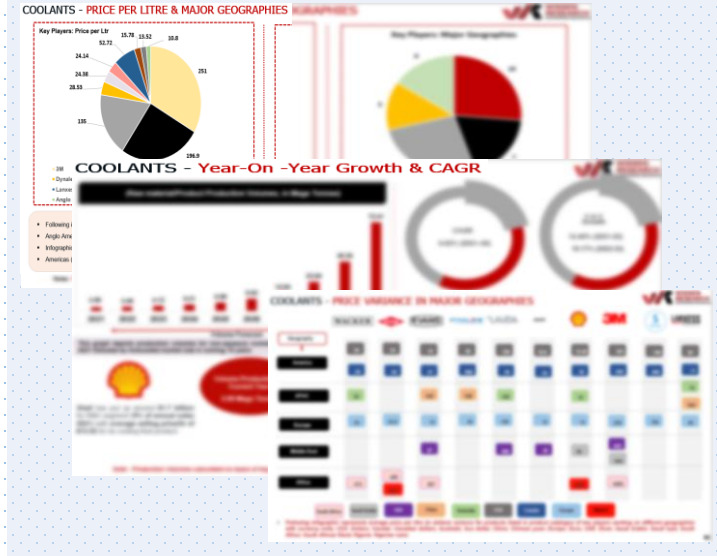
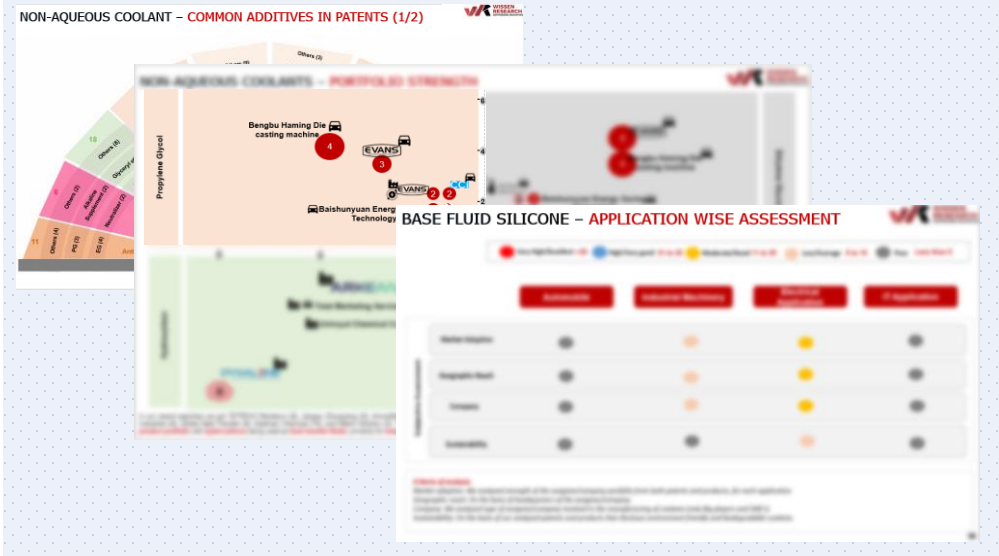
The analysis answered following questions:

- **Volume Production in Current Year** – 3.08 Mega Tonnes
- **Major Companies Identified** – Shell, Solvay, 3M
- **CAGR** – 6.02% (2021-2030)
- **Focused Geographies** – America , Europe

Projection or Market analysis played a vital role in the client's strategy as it **focused on forecasting** as a rapid means to illustrate **financial growth and provide insights into near-future predictions**.

What Questions it Answered ?

How it Helped the Client ?





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