



Market Analytics: Acrylonitrile - 2018

Market Analytics: Acrylonitrile - 2018 is one in a series of reports published as part of Nexant's Markets & Profitability program.

This report provides an in-depth analysis of the global acrylonitrile market.

Published: June 2018

Along with the written report, Nexant's Online Database includes supply, demand and trade analysis for 40 countries and global capacity listings updated on a monthly basis.

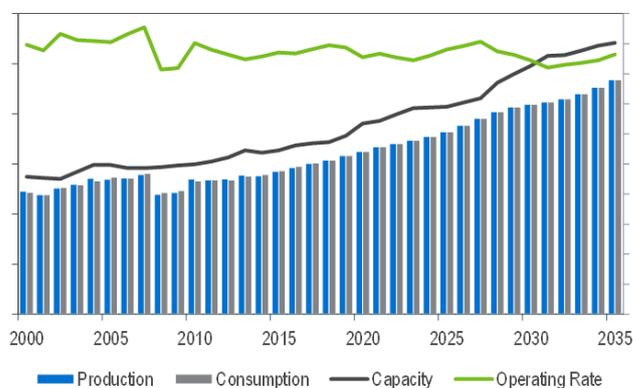
Report Abstract:

Acrylonitrile (ACN) is a petrochemical intermediate, traditionally used as a monomer or comonomer for synthetic fibres, as well as a constituent of certain important plastics and elastomer products.

The majority of acrylonitrile is produced via the propylene ammoxidation process. However, over the last decade, propylene shortages and increasing propylene prices have encouraged producers to develop alternative routes. As a result, the first plant manufacturing acrylonitrile from propane feedstock started up in 2011.

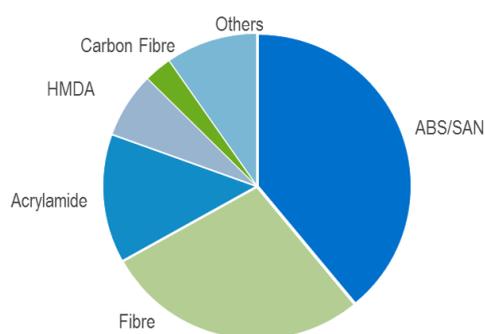
Global consumption of acrylonitrile was estimated at 6 million tons in 2017. Global demand experienced moderate growth in 2017 and is forecast to grow at an annual average rate of three percent over the next five years, with the long term growth outlook relatively positive. Although acrylic fibre has reached maturity, acrylonitrile consumption is forecast to continue with decent growth in the coming years, supported largely by a recovery in the acrylonitrile butadiene styrene (ABS) market, the growing acrylamide sector and, to a lesser extent, the emerging carbon fibre application.

Global ACN Supply, Demand and Trade
million tons



Global consumption of acrylonitrile was estimated at 6 million tons in 2017. Global demand experienced moderate growth in 2017 and is forecast to grow at an annual average rate of three percent over the next five years, with the long term growth outlook relatively positive. Although acrylic fibre has reached maturity, acrylonitrile consumption is forecast to continue with decent growth in the coming years, supported largely by a recovery in the acrylonitrile butadiene styrene (ABS) market, the growing acrylamide sector and, to a lesser extent, the emerging carbon fibre application.

Global Acrylonitrile Demand, 2017



In 2017, global carbon fibre production consumed around 175 000 tons of acrylonitrile. This application has grown exponentially over the last few years, driven by new capacity development and a wider variety of applications. The relatively high consumption factor of carbon fibre is the reason that, although the market is still small, the application is expected to have a positive impact on the overall fibre market.

Carbon fibre demand has recently been driven by wind turbines, aerospace/defence and the sports/leisure segment. The major new applications are aimed at reducing weight and energy consumption. Due to its strength and light weight, carbon fibre is targeted to replace frame rails and other steel parts. Carbon fibre is roughly ten times stronger than steel and is a quarter of the weight. This material could help automotive producers meet increasingly stringent fuel consumption standards introduced over the next decade. Carbon fibre demand for the automobile sector is currently relatively small, but has the highest growth potential. One key challenge with carbon fibre is that it is not easy to recycle, after recycling the material reduces strength. Despite the relatively high cost of carbon fibre, some automotive manufacturers are integrating the material into some of their products.



Market Analytics: Acrylonitrile - 2018

Table of Contents

1. Executive Summary
 2. The Propylene and Derivatives Industry
 - 2.1. Global Overview
 - 2.2. Current Industry Performance
 - 2.3. Acrylonitrile End-Use Overview
 3. Acrylonitrile
 - 3.1. North America
 - 3.2. South America
 - 3.3. Western Europe
 - 3.4. Central Europe
 - 3.5. Eastern Europe
 - 3.6. Middle East
 - 3.7. Africa
 - 3.8. Asia Pacific
- Appendix
- A. Methodology
 - B. Propylene – Technology

Each region/country is further segmented by:

- Consumption: Assesses historic and forecast consumption; forecasts are based on projections of end use and economic activity.
Supply: Includes a list of all producers, their production capacity, location, etc., and discussion of the status of new projects.
- Supply, Demand and Trade: Provides historical analysis and forecasts to 2035 of consumption, production, imports/exports, inventory build-up/decline, capacity and capacity utilization.

This analysis will identify the issues shaping the industry, as well as provide an independent appraisal of the market.

Subscription Details:

Subscription to **Market Analytics: Acrylonitrile - 2018** includes:

- 12 month access via the Nexant website, to:
 - Unlimited downloads of PDF reports
 - Downloadable data in Excel from the Online Database
 - Webinar
 - Consultation time with the project team
- Customized subscriptions are available

Contact Us:
For more information please contact
markets@nexant.com
or
www.nexantsubscriptions.com



Nexant Subscriptions and reports provide clients with comprehensive analytics, forecasts and insights for the chemicals, polymers, energy and cleantech industries. Using a combination of business and technical expertise, with deep and broad understanding of markets, technologies and economics, Nexant provides solutions that our clients have relied upon for over 50 years.

The **Markets and Profitability** program comprises of the well-known Petroleum and Petrochemical Economics (PPE), PolyOlefins Planning Service (POPS), Strategic Business Analysis (SBA) and World Gas Analytics (WGAS).

Markets and Profitability tracks over 60 feedstocks, petrochemicals, polymers, chemical intermediates and fertilizers on an ongoing basis and provides regularly updated reports covering all commercial aspects of these global industries. The accompanying database, provides global analysis and forecasts in two major inter-related areas: **Markets and Profitability**.

Nexant serves its clients from over 30 offices located throughout the Americas, Europe, the Middle East, Africa and Asia.

Corporate Headquarters

Tel: +1 415 369 1000
101 2nd St Suite 1000
San Francisco
CA 94105-3651
USA

Americas

Tel: +1 914 609 0300
44 S Broadway,
4th Floor White Plains
NY 10601-4425
USA

Europe, Middle East & Africa

Tel: +44 20 7950 1600
1 King's Arms Yard
London EC2R 7AF
United Kingdom

Asia Pacific

Tel: +662 793 4600
22nd Floor, Rasa Tower I
555 Phahonyothin Road
Kwaeng Chatuchak
Khet Chatuchak
Bangkok 10900
Thailand