

Market Report

Global Catalyst Market

Third Edition

Updated: March, 2015

Publisher: Acmite Market Intelligence

Language: English

Pages: 542

Price: from 1,490 Euro

Abstract

Benefiting from rapid growth in automotive and chemical industry overall, catalyst market experiences over average growth as well. Global demand on catalysts was valued at US\$33.5 billion in 2014 and will witness robust growth in the next years.

To meet growing market demand, heavy investments have been made or planned for construction of new manufacturing facilities in both developed regions and developing regions. Driven by higher precious metal prices and limited rare-earth supply, global leading catalyst producers are also investing significantly in research and development of new products, processes and technologies.

With environmental regulations, rising raw material prices, heavier feedstocks and call for green chemistry as driving forces, catalyst industry presents a dramatically changing market with opportunities and risks.

Acmite Market Intelligence has finished the latest update of the report on global catalyst market. It is ready for order.

The report examines the current products and application areas, provides extensive market data of 2014, and market forecast through 2018 to 2023. It also outlines the competition landscape, evaluates market chances and risks and anticipates future trends based on a series of influence factors.

- 218 pages analyzing the market
- 60 figure tables
- 270 catalyst manufacturers profiled

With a multi-dimensional and in-depth view of global catalyst market, this report is ideal help for you with decisions about international market penetration, business expansion or project feasibility analysis.

Table of Contents

Volume I

Executive Summary	1
1. Definition and segmentation	3
1.1 Definition.....	3
1.2 Segmentation.....	5
1.2.1 Classification of catalyst	5
1.2.2 Catalyst by material	6
1.2.3 Catalyst by application field	10
2 Products	11
2.1 Homogeneous catalyst	11
2.2 Heterogeneous catalyst.....	12
2.2.1 Application	12
2.2.2 Product	13
2.3 Comparison of homogeneous and heterogeneous catalysts	16
2.4 Biocatalyst	18
2.4.1 Product	18
2.4.2 Application	19
2.5 Other catalysts.....	20
2.6 Development of catalysis and catalysts in industrial use	21
2.7 Major properties of catalysts	24
2.8 Industrial importance of catalyst	26
3. Macro-environment	27
3.1 Trends in the world economy and the chemical industry	27
3.2 The chemical industry.....	31
3.3 Industry concentration	34
3.4 Laws and legislations.....	36
3.4.1 Legislations concerning chemical industry.....	36
3.4.2 Emission control legislation	39

4 Overview of catalyst market.....	45
4.1 Catalyst Market and outlook	45
4.1.1 Catalyst market by type	45
4.1.2 Catalyst market by region	47
4.1.3 Catalyst market by material	50
4.1.4 Catalyst market by application	53
4.2 Market trends and chances	56
4.3 Industry dynamics.....	69
4.4 Investments, Divestments, M&A.....	83
4.5 Competition analysis.....	98
5 Market by material	113
5.1 Metal-based catalyst.....	113
5.1.1 Metal-based Catalyst market	113
5.1.2 Precious metal catalyst market.....	116
5.1.2.1 Precious metal catalyst demand by application	118
5.1.2.2 Precious metal catalyst demand by type	119
5.1.2.3 Precious metal catalyst demand by region	120
5.1.2.4 Historical demand and prices of precious metal	121
5.1.2.5 Market trends and opportunities	125
5.1.3 Base metal catalyst.....	126
5.1.3.1 Base metal catalyst demand by application.....	128
5.1.3.2 Base metal catalyst demand by type	129
5.1.3.3 Base metal catalyst demand by region	130
5.1.3.4 Market trends and opportunities	131
5.1.4 Rare earth metal catalyst.....	132
5.1.4.1 Rare earth metal catalyst demand by application	134
5.1.4.2 Rare earth metal catalyst demand by type	135
5.1.4.3 Rare earth metal catalyst demand by region	136
5.1.4.4 Market trends and opportunities	137
5.2 Organometallic catalyst market.....	138
5.2.1 Organometallic catalyst market by application.....	140

5.2.2 Organometallic catalyst market demand by type	141
5.2.3 Organometallic catalyst market demand by region	142
5.2.4 Market trends and opportunities	143
5.3 Acid catalyst.....	144
5.3.1 Acid catalyst demand by application.....	145
5.3.2 Acid catalyst demand by region	146
5.3.3 Zeolite catalyst.....	147
5.3.3.1 Zeolite catalysts demand by application	148
5.3.3.2 Zeolite catalysts demand by region	149
5.3.4 Market trends and opportunities	150
5.4 Biocatalyst	151
5.4.1 Products and processes	151
5.4.2 Biocatalyst market by type.....	152
5.4.3 Biocatalyst market by region.....	154
5.4.4 Biocatalyst market by application.....	156
5.4.5 Fine chemicals market by segment	158
5.4.6 World fine chemicals production by region	160
5.4.7 Market trends and opportunities	162
6 Market by application	163
6.1 Overview.....	163
6.2 Polymerization catalyst.....	165
6.2.1 Products and processes	165
6.2.2 Polymerization catalyst market by type.....	167
6.2.3 Polymerization catalyst market by resin.....	169
6.2.4 Polymerization catalyst market by region	171
6.3 Chemical processing catalyst	173
6.3.1 Products and Processes	173
6.3.2 Chemical processing catalyst market by segment.....	177
6.3.3 Chemical processing catalyst market by region.....	179
6.4 Petroleum Refining Catalyst	181
6.4.1 Products and processes	181

6.4.2 Petroleum refining catalyst by segment	188
6.4.3 Petroleum refining catalyst by region	190
6.4.4 World oil refinery capacity (by country)	191
6.5 Environmental catalyst	193
6.5.1 Products and processes	193
6.5.2 Environmental catalyst market	195
6.5.3 Automotive catalyst	197
6.5.3.1 Products and processes	197
6.5.3.2 Automotive catalyst market by type	202
6.5.3.3 Automotive catalyst market by region	204
6.5.3.4 Demand of precious metal for autocatalyst	206
6.5.4 Other environmental catalyst	208
6.6 Biofuel	209
6.6.1 Products and processes	209
6.6.2 Biofuel catalyst market by region	211
6.7 Catalyst regeneration	213
6.7.1 Overview	213
6.7.2 Catalyst regeneration market by type	215
6.7.3 Market trends and opportunities	218

Volume II

Company profile	1-324
-----------------------	-------

Note:

Regions:

North America: US, Canada, Mexico (NAFTA region)

Asia Pacific: Countries of Asia, Australia, New Zealand

Asia Pacific*: Asia Pacific excluding Japan

2.8 Industrial importance of catalyst

The production of 80 percent industrially important chemicals involves catalysis. Catalysis is of paramount importance in the chemical industry.

- Catalysts are involved in more than USD 10 trillion in goods & services of the Global GDP annually
- Catalyst industry contributes around 2% of total investment in a chemical process
- Catalyst make chemical processes possible and more efficient
- The use of catalyst in chemical processes contributes to environmental preservation
- The key factor for sustainable development of industrial society

Catalyst is a road to environmentally friendly green chemistry

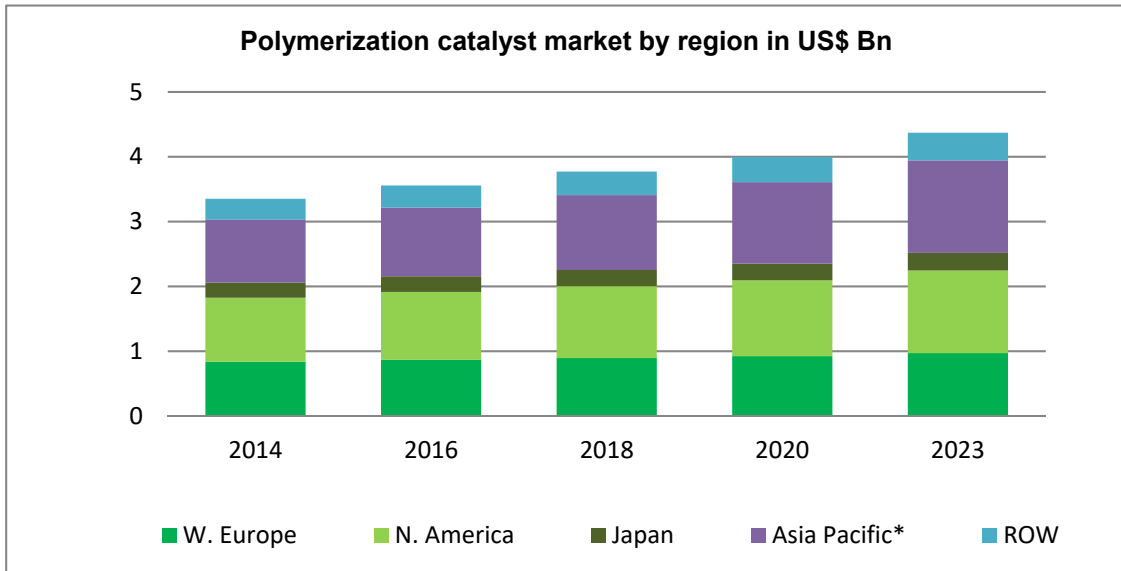
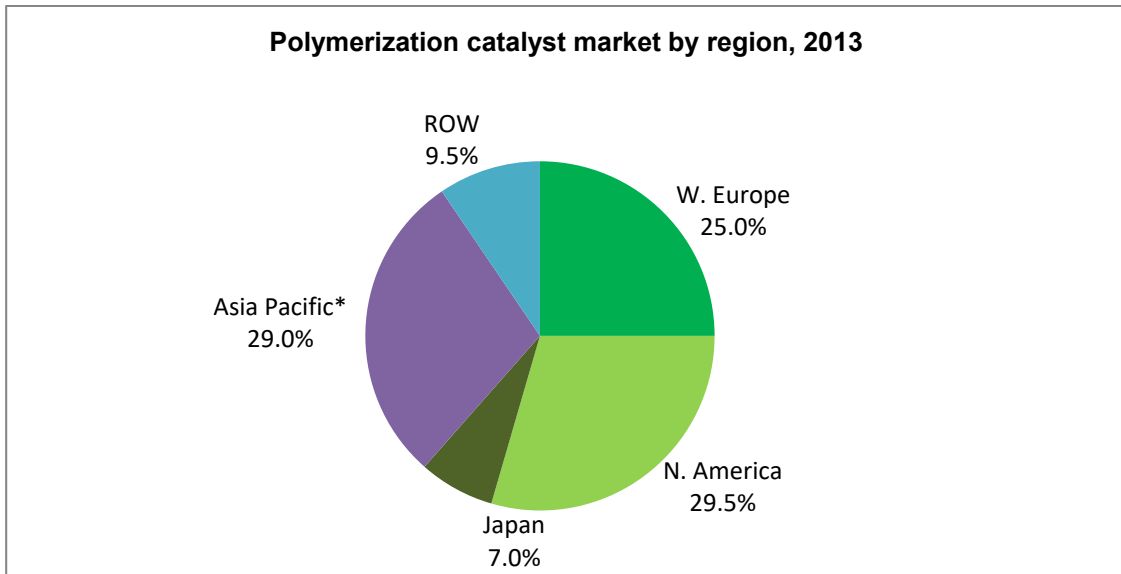
- Chemical processes with catalysts require lower energy input
- Catalysts decrease use of processing and separation agents
- Catalysts allow the use of less toxic materials
- Increase in selectivity aided by catalysts lead to increase in product quality and operating profit
- The use of environmental catalyst purifies industry and automotive exhaust

(Vol. I P 26)

6.2.4 Polymerization catalyst market by region

Polymerization catalyst market by resin in US\$ Bn

	2014	2016	2018	2020	2023	CAGR
W. Europe	0.84	0.87	0.90	0.92	0.97	1.8%
N. America	0.99	1.05	1.11	1.17	1.27	3.0%
Japan	0.23	0.24	0.25	0.26	0.27	1.7%
Asia Pacific*	0.97	1.06	1.15	1.25	1.43	4.5%
ROW	0.32	0.34	0.36	0.39	0.43	3.5%
Total	3.35	3.56	3.77	3.99	4.35	3.0%



(Vol. I P.171)

6.5 Environmental catalyst

6.5.1 Products and processes

Environmental protection and sustainable development is now a worldwide concern. Environmental catalysis is valued as an efficient aid to address the ever severe environmental problem. The development of innovative environmental catalysts is also the crucial factor towards the objective of developing a new sustainable industrial chemistry..

Environmental catalysis has continuously grown in importance over the last 2 decades not only in terms of the worldwide catalyst market, but also as a driver of advances in the whole area of catalysis.

The traditional area of environmental catalysis includes

- NOx removal from stationary and mobile sources,
- VOC conversion

New areas include:

- Catalytic technologies for liquid or solid waste reduction or purification
- Use of catalysts in energy-efficient catalytic technologies and processes
- Reduction of the environmental impact in the use or disposal of catalysts
- New eco-compatible refinery, chemical or non-chemical catalytic processes
- Catalysis for greenhouse gas control
- Use of catalysts for user-friendly technologies and reduction of indoor pollution
- Catalytic processes for sustainable chemistry
- Reduction of the environmental impact of transport

.....

(Vol. I P.193)

Borealis AG (Austria)

IZD Tower, Wagramerstraße 17–19

A-1220 Vienna

Austria

Phone: +43 (0) 1 22 4000

Fax: +43 (0) 1 22 400 333

<http://www.borealisgroup.com>

Year of foundation: 1994

Number of employees: over 6,200

Revenue 2013: EUR 8,144 million

Company profile

Borealis AG, a subsidiary of IPIC Beta Holdings GmbH, was originally created in 1994 as a polyolefins joint venture between Finland's Neste and Norway's Statoil. The company specializes in providing chemical and plastics solutions for a wide range industries including energy & infrastructure, engineering, automotive, and packaging & fibre.

Borealis operates primarily in two segments:

- Polyolefins: The company offers polyolefin compounds for the global wire and cable industry, delivering effective solutions that are widely applied in low, medium, high and extra-high voltage energy transmission and distribution cables, in data and communication cables as well as in building and automotive wires and cables. It also polyolefin plastics for engineering applications in the automotive industry and for household appliances. In addition,

... ..

(Vol. II P.36)



Order Form

Please return this form

Via Fax: +49-2102-8761 471 or
 Via Email: market@acmite.com or
 Via Post: Acmite Market Intelligence | Dechenstr 17, 40878 Ratingen, Germany

If you have any question please email to: market@acmite.com

Code	Product	Page	Basic License*	Site License**	Corporate License***
C0541	Global Catalyst Market, Volume I	218	<input type="checkbox"/> EUR 1490	<input type="checkbox"/> EUR 1690	<input type="checkbox"/> EUR 2390
C0542	Global Catalyst Market, Volume II	324	<input type="checkbox"/> EUR 790	<input type="checkbox"/> EUR 990	<input type="checkbox"/> EUR 1290
C0540	Global Catalyst Market, Total (Volume I + II)	542	<input type="checkbox"/> EUR 1990	<input type="checkbox"/> EUR 2390	<input type="checkbox"/> EUR 3390
<i>Sum</i>			<input type="checkbox"/> <i>EUR</i> _____	<input type="checkbox"/> <i>EUR</i> _____	<input type="checkbox"/> <i>EUR</i> _____

* Basic license: non-printable and non-copyable PDF, for single user only

** Site license: printable and copyable PDF, for one business site

*** Corporate license: printable and copyable PDF, for all business sites

If hard copy is wished, 50 EUR is charged for each volume and each copy. Please make a notice here: _____.

Company: _____

Contact Person: Mr Ms Dr

Address: _____

Name: _____

Position /Dept.: _____

Zip Code: _____

Phone: _____

Country: _____

Fax: _____

Homepage: _____

Email: _____

Date: _____

Signature: _____