

Global Zeolite Market Status (2015-2019) and Forecast (2020-2024) by Region, Product Type & End-Use

<https://marketpublishers.com/r/G958F5E91E5EN.html>

Date: July 2019

Pages: 117

Price: US\$ 3,000.00 (Single User License)

ID: G958F5E91E5EN

Abstracts

SUMMARY

Zeolites are microporous, aluminosilicate minerals commonly used as commercial adsorbents and catalysts. The term zeolite was originally coined in 1756 by Swedish mineralogist Axel Fredrik Cronstedt, who observed that upon rapidly heating the material stilbite, it produced large amounts of steam from water that had been adsorbed by the material. Zeolites are hydrated aluminosilicate minerals made from interlinked tetrahedra of alumina (AlO₄) and silica (SiO₄). In simpler words, they're solids with a relatively open, three-dimensional crystal structure built from the elements aluminum, oxygen, and silicon, with alkali or alkaline-Earth metals (such as sodium, potassium, and magnesium) plus water molecules trapped in the gaps between them. Zeolites form with many different crystalline structures, which have large open pores (sometimes referred to as cavities) in a very regular arrangement and roughly the same size as small molecules.

The report forecast global Zeolite market to grow to reach xxx Million USD in 2019 with a CAGR of xx% during the period 2020-2024.

The report offers detailed coverage of Zeolite industry and main market trends. The market research includes historical and forecast market data, demand, application details, price trends, and company shares of the leading Zeolite by geography. The report splits the market size, by volume and value, on the basis of application type and geography.

First, this report covers the present status and the future prospects of the global Zeolite market for 2015-2024.

And in this report, we analyze global market from 5 geographies: Asia-Pacific[China, Southeast Asia, India, Japan, Korea, Western Asia], Europe[Germany, UK, France, Italy, Russia, Spain, Netherlands, Turkey, Switzerland], North America[United States, Canada, Mexico], Middle East & Africa[GCC, North Africa, South Africa], South America[Brazil, Argentina, Columbia, Chile, Peru].

At the same time, we classify Zeolite according to the type, application by geography. More importantly, the report includes major countries market based on the type and application.

Finally, the report provides detailed profile and data information analysis of leading Zeolite company.

Key Content of Chapters as follows (Including and can be customized):

Part 1:

Market Overview, Development, and Segment by Type, Application & Region

Part 2:

Company information, Sales, Cost, Margin etc.

Part 3:

Global Market by company, Type, Application & Geography

Part 4:

Asia-Pacific Market by Type, Application & Geography

Part 5:

Europe Market by Type, Application & Geography

Part 6:

North America Market by Type, Application & Geography

Part 7:

South America Market by Type, Application & Geography

Part 8:

Middle East & Africa Market by Type, Application & Geography

Part 9:

Market Features

Part 10:

Investment Opportunity

Part 11:

Conclusion

Market Segment as follows:

By Region

Asia-Pacific[China, Southeast Asia, India, Japan, Korea, Western Asia]

Europe[Germany, UK, France, Italy, Russia, Spain, Netherlands, Turkey, Switzerland]

North America[United States, Canada, Mexico]

Middle East & Africa[GCC, North Africa, South Africa]

South America[Brazil, Argentina, Columbia, Chile, Peru]

Key Companies

UOP (Honeywell)

CECA (Arkema)

BASF

Zeochem AG

Tosoh Corporation

W. R. Grace

Zeolyst

Bear River Zeolite

Blue Pacific Minerals

Clariant

Market by Type

Natural Zeolite

Synthetic Zeolite

Market by Application

Petrochemicals

Light Industry

Building & Concrete

Others

Contents

PART 1 MARKET OVERVIEW

- 1.1 Market Definition
- 1.2 Market Development
- 1.3 By Type
- 1.4 By Application
- 1.5 By Region

PART 2 KEY COMPANIES

- 2.1 UOP (Honeywell)
 - 2.1.1 Company Profile
 - 2.1.2 Products & Services Overview
 - 2.1.3 Sales Data List
- 2.2 CECA (Arkema)
- 2.3 BASF
- 2.4 Zeochem AG
- 2.5 Tosoh Corporation
- 2.6 W. R. Grace
- 2.7 Zeolyst
- 2.8 Bear River Zeolite
- 2.9 Blue Pacific Minerals
- 2.10 Clariant

PART 3 GLOBAL MARKET STATUS AND FUTURE FORECAST

- 3.1 Global Market by Region
- 3.2 Global Market by Company
- 3.3 Global Market by Type
- 3.4 Global Market by Application
- 3.5 Global Market by Forecast

PART 4 ASIA-PACIFIC MARKET STATUS AND FUTURE FORECAST

- 4.1 Asia-Pacific Market by Type
- 4.2 Asia-Pacific Market by Application
- 4.3 Asia-Pacific Market by Geography

- 4.3.1 China Market Status and Future Forecast
- 4.3.2 Southeast Asia Market Status and Future Forecast
- 4.3.3 India Market Status and Future Forecast
- 4.3.4 Japan Market Status and Future Forecast
- 4.3.5 Korea Market Status and Future Forecast
- 4.3.6 Oceania Market Status and Future Forecast
- 4.4 Asia-Pacific Market by Forecast

PART 5 EUROPE MARKET STATUS AND FUTURE FORECAST

- 5.1 Europe Market by Type
- 5.2 Europe Market by Application
- 5.3 Europe Market by Geography
 - 5.3.1 Germany Market Status and Future Forecast
 - 5.3.2 UK Market Status and Future Forecast
 - 5.3.3 France Market Status and Future Forecast
 - 5.3.4 Italy Market Status and Future Forecast
 - 5.3.5 Russia Market Status and Future Forecast
 - 5.3.6 Spain Market Status and Future Forecast
 - 5.3.6 Netherlands Market Status and Future Forecast
 - 5.3.7 Turkey Market Status and Future Forecast
 - 5.3.6 Switzerland Market Status and Future Forecast
- 5.4 Europe Market by Forecast

PART 6 NORTH AMERICA MARKET STATUS AND FUTURE FORECAST

- 6.1 North America Market by Type
- 6.2 North America Market by Application
- 6.3 North America Market by Geography
 - 6.3.1 United States Market Status and Future Forecast
 - 6.3.2 Canada Market Status and Future Forecast
 - 6.3.3 Mexico Market Status and Future Forecast
- 6.4 North America Market by Forecast

PART 7 SOUTH AMERICA MARKET STATUS AND FUTURE FORECAST

- 7.1 South America Market by Type
- 7.2 South America Market by Application
- 7.3 South America Market by Geography

- 7.3.1 Brazil Market Status and Future Forecast
- 7.3.2 Argentina Market Status and Future Forecast
- 7.3.3 Columbia Market Status and Future Forecast
- 7.3.4 Chile Market Status and Future Forecast
- 7.3.5 Peru Market Status and Future Forecast
- 7.4 South America Market by Forecast

PART 8 MIDDLE EAST & AFRICA MARKET STATUS AND FUTURE FORECAST

- 8.1 Middle East & Africa Market by Type
- 8.2 Middle East & Africa Market by Application
- 8.3 Middle East & Africa Market by Geography
 - 8.3.1 GCC Market Status and Future Forecast
 - 8.3.2 North Africa Market Status and Future Forecast
 - 8.3.3 South Africa Market Status and Future Forecast
- 8.4 Middle East & Africa Market by Forecast

PART 9 MARKET FEATURES

- 9.1 Product Features
- 9.2 Price Features
- 9.3 Channel Features
- 9.4 Purchasing Features

PART 10 INVESTMENT OPPORTUNITY

- 10.1 Regional Investment Opportunity
- 10.2 Industry Investment Opportunity

PART 11 CONCLUSION

List Of Tables

LIST OF TABLES

Table Type of Zeolite

Table Application of Zeolite

Table UOP (Honeywell) Overview List

Table Zeolite Business Operation of UOP (Honeywell) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table CECA (Arkema) Overview List

Table Zeolite Business Operation of CECA (Arkema) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table BASF Overview List

Table Zeolite Business Operation of BASF (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Zeochem AG Overview List

Table Zeolite Business Operation of Zeochem AG (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Tosoh Corporation Overview List

Table Zeolite Business Operation of Tosoh Corporation (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table W. R. Grace Overview List

Table Zeolite Business Operation of W. R. Grace (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Zeolyst Overview List

Table Zeolite Business Operation of Zeolyst (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Bear River Zeolite Overview List

Table Zeolite Business Operation of Bear River Zeolite (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Blue Pacific Minerals Overview List

Table Zeolite Business Operation of Blue Pacific Minerals (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Clariant Overview List

Table Zeolite Business Operation of Clariant (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Global Zeolite Market by Region, 2015-2019 (Million USD)

Table Global Zeolite Market by Region, 2015-2019 (Kilo MT)

Table Price List by Region, 2015-2019

Table Global Zeolite Market by Company, 2015-2019 (Million USD)
Table Global Zeolite Market by Company, 2015-2019 (Kilo MT)
Table Price List by Company, 2015-2019
Table Global Zeolite Market by Type, 2015-2019 (Million USD)
Table Global Zeolite Market by Type, 2015-2019 (Kilo MT)
Table Price List by Type, 2015-2019
Table Global Zeolite Market by Application, 2015-2019 (Million USD)
Table Global Zeolite Market by Application, 2015-2019 (Kilo MT)
Table Price List by Application, 2015-2019
Table Asia-Pacific Zeolite Market by Type, 2015-2019 (Million USD)
Table Asia-Pacific Zeolite Market by Type, 2015-2019 (Kilo MT)
Table Price List by Type, 2015-2019
Table Asia-Pacific Zeolite Market by Application, 2015-2019 (Million USD)
Table Asia-Pacific Zeolite Market by Application, 2015-2019 (Kilo MT)
Table Price List by Application, 2015-2019
Table Europe Zeolite Market by Type, 2015-2019 (Million USD)
Table Europe Zeolite Market by Type, 2015-2019 (Kilo MT)
Table Price List by Type, 2015-2019
Table Europe Zeolite Market by Application, 2015-2019 (Million USD)
Table Europe Zeolite Market by Application, 2015-2019 (Kilo MT)
Table Price List by Application, 2015-2019
Table North America Zeolite Market by Type, 2015-2019 (Million USD)
Table North America Zeolite Market by Type, 2015-2019 (Kilo MT)
Table Price List by Type, 2015-2019
Table North America Zeolite Market by Application, 2015-2019 (Million USD)
Table North America Zeolite Market by Application, 2015-2019 (Kilo MT)
Table Price List by Application, 2015-2019
Table South America Zeolite Market by Type, 2015-2019 (Million USD)
Table South America Zeolite Market by Type, 2015-2019 (Kilo MT)
Table Price List by Type, 2015-2019
Table South America Zeolite Market by Application, 2015-2019 (Million USD)
Table South America Zeolite Market by Application, 2015-2019 (Kilo MT)
Table Price List by Application, 2015-2019
Table Middle East & Africa Zeolite Market by Type, 2015-2019 (Million USD)
Table Middle East & Africa Zeolite Market by Type, 2015-2019 (Kilo MT)
Table Price List by Type, 2015-2019
Table Middle East & Africa Zeolite Market by Application, 2015-2019 (Million USD)
Table Middle East & Africa Zeolite Market by Application, 2015-2019 (Kilo MT)
Table Price List by Application, 2015-2019

List Of Figures

LIST OF FIGURES

- Figure Global Zeolite Market Share by Type in 2019
- Figure Global Zeolite Market Share by Application in 2019
- Figure Global Zeolite Market Share by Region in 2019
- Figure Asia Zeolite Market Share by Region in 2019
- Figure Global Zeolite Market Share by Region in 2019 (Million USD)
- Figure Global Zeolite Market Share by Region in 2019 (Kilo MT)
- Figure Global Zeolite Market Share by Company in 2019 (Million USD)
- Figure Global Zeolite Market Share by Company in 2019 (Kilo MT)
- Figure Global Zeolite Market Share by Type in 2019 (Million USD)
- Figure Global Zeolite Market Share by Type in 2019 (Kilo MT)
- Figure Global Zeolite Market Share by Application in 2019 (Million USD)
- Figure Global Zeolite Market Share by Application in 2019 (Kilo MT)
- Figure Global Zeolite Market Forecast, 2020-2024 (Million USD)
- Figure Global Zeolite Market Forecast, 2020-2024 (Kilo MT)
- Figure Asia-Pacific Zeolite Market Share by Type in 2019 (Million USD)
- Figure Asia-Pacific Zeolite Market Share by Type in 2019 (Kilo MT)
- Figure Asia-Pacific Zeolite Market Share by Application in 2019 (Million USD)
- Figure Asia-Pacific Zeolite Market Share by Application in 2019 (Kilo MT)
- Figure Asia-Pacific Zeolite Market Forecast, 2020-2024 (Million USD)
- Figure Asia-Pacific Zeolite Market Forecast, 2020-2024 (Kilo MT)
- Figure China Zeolite Market Market Status, 2015-2019 (Million USD)
- Figure China Zeolite Market Market Status, 2015-2019 (Kilo MT)
- Figure China Zeolite Market Forecast, 2020-2024 (Million USD)
- Figure China Zeolite Market Forecast, 2020-2024 (Kilo MT)
- Figure Southeast Asia Zeolite Market Market Status, 2015-2019 (Million USD)
- Figure Southeast Asia Zeolite Market Market Status, 2015-2019 (Kilo MT)
- Figure Southeast Asia Zeolite Market Forecast, 2020-2024 (Million USD)
- Figure Southeast Asia Zeolite Market Forecast, 2020-2024 (Kilo MT)
- Figure India Zeolite Market Market Status, 2015-2019 (Million USD)
- Figure India Zeolite Market Market Status, 2015-2019 (Kilo MT)
- Figure India Zeolite Market Forecast, 2020-2024 (Million USD)
- Figure India Zeolite Market Forecast, 2020-2024 (Kilo MT)
- Figure Japan Zeolite Market Market Status, 2015-2019 (Million USD)
- Figure Japan Zeolite Market Market Status, 2015-2019 (Kilo MT)
- Figure Japan Zeolite Market Forecast, 2020-2024 (Million USD)

Figure Japan Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Korea Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Korea Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Korea Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Korea Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Oceania Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Oceania Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Oceania Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Oceania Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Europe Zeolite Market Share by Type in 2019 (Million USD)
Figure Europe Zeolite Market Share by Type in 2019 (Kilo MT)
Figure Europe Zeolite Market Share by Application in 2019 (Million USD)
Figure Europe Zeolite Market Share by Application in 2019 (Kilo MT)
Figure Europe Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Europe Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Germany Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Germany Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Germany Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Germany Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure UK Zeolite Market Market Status, 2015-2019 (Million USD)
Figure UK Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure UK Zeolite Market Forecast, 2020-2024 (Million USD)
Figure UK Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure France Zeolite Market Market Status, 2015-2019 (Million USD)
Figure France Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure France Zeolite Market Forecast, 2020-2024 (Million USD)
Figure France Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Italy Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Italy Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Italy Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Italy Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Russia Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Russia Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Russia Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Russia Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Spain Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Spain Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Spain Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Spain Zeolite Market Forecast, 2020-2024 (Kilo MT)

Figure Netherlands Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Netherlands Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Netherlands Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Netherlands Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Turkey Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Turkey Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Turkey Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Turkey Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Switzerland Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Switzerland Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Switzerland Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Switzerland Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure North America Zeolite Market Share by Type in 2019 (Million USD)
Figure North America Zeolite Market Share by Type in 2019 (Kilo MT)
Figure North America Zeolite Market Share by Application in 2019 (Million USD)
Figure North America Zeolite Market Share by Application in 2019 (Kilo MT)
Figure North America Zeolite Market Forecast, 2020-2024 (Million USD)
Figure North America Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure United States Zeolite Market Market Status, 2015-2019 (Million USD)
Figure United States Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure United States Zeolite Market Forecast, 2020-2024 (Million USD)
Figure United States Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Canada Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Canada Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Canada Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Canada Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Mexico Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Mexico Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Mexico Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Mexico Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure South America Zeolite Market Share by Type in 2019 (Million USD)
Figure South America Zeolite Market Share by Type in 2019 (Kilo MT)
Figure South America Zeolite Market Share by Application in 2019 (Million USD)
Figure South America Zeolite Market Share by Application in 2019 (Kilo MT)
Figure South America Zeolite Market Forecast, 2020-2024 (Million USD)
Figure South America Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Brazil Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Brazil Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Brazil Zeolite Market Forecast, 2020-2024 (Million USD)

Figure Brazil Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Argentina Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Argentina Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Argentina Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Argentina Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Columbia Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Columbia Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Columbia Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Columbia Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Chile Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Chile Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Chile Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Chile Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Peru Zeolite Market Market Status, 2015-2019 (Million USD)
Figure Peru Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure Peru Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Peru Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure Middle East & Africa Zeolite Market Share by Type in 2019 (Million USD)
Figure Middle East & Africa Zeolite Market Share by Type in 2019 (Kilo MT)
Figure Middle East & Africa Zeolite Market Share by Application in 2019 (Million USD)
Figure Middle East & Africa Zeolite Market Share by Application in 2019 (Kilo MT)
Figure Middle East & Africa Zeolite Market Forecast, 2020-2024 (Million USD)
Figure Middle East & Africa Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure GCC Zeolite Market Market Status, 2015-2019 (Million USD)
Figure GCC Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure GCC Zeolite Market Forecast, 2020-2024 (Million USD)
Figure GCC Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure North Africa Zeolite Market Market Status, 2015-2019 (Million USD)
Figure North Africa Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure North Africa Zeolite Market Forecast, 2020-2024 (Million USD)
Figure North Africa Zeolite Market Forecast, 2020-2024 (Kilo MT)
Figure South Africa Zeolite Market Market Status, 2015-2019 (Million USD)
Figure South Africa Zeolite Market Market Status, 2015-2019 (Kilo MT)
Figure South Africa Zeolite Market Forecast, 2020-2024 (Million USD)
Figure South Africa Zeolite Market Forecast, 2020-2024 (Kilo MT)

I would like to order

Product name: Global Zeolite Market Status (2015-2019) and Forecast (2020-2024) by Region, Product Type & End-Use

Product link: <https://marketpublishers.com/r/G958F5E91E5EN.html>

Price: US\$ 3,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G958F5E91E5EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

