

Global Glacial Methacrylic Acid (GMAA) Market Status, Trends and COVID-19 Impact Report 2022

<https://marketpublishers.com/r/G5809434394EEN.html>

Date: October 2022

Pages: 125

Price: US\$ 2,350.00 (Single User License)

ID: G5809434394EEN

Abstracts

In the past few years, the Glacial Methacrylic Acid (GMAA) market experienced a huge change under the influence of COVID-19 and Russia-Ukraine War, the global market size of Glacial Methacrylic Acid (GMAA) reached XXX million \$ in 2022 from XXX in 2017 with a CAGR of xxx from 2017-2022. Facing the complicated international situation, the future of the Glacial Methacrylic Acid (GMAA) market is full of uncertain. BisReport predicts that the global Glacial Methacrylic Acid (GMAA) market size will reach XXX million \$in 2028 with a CAGR of xx% from 2022-2028.

Since the outbreak of COVID-19, the world economy continues to suffer from a series of destabilizing shocks, many companies experienced bankruptcy and a sharp decline in turnover. After more than two years of pandemic, global economy began to recover, entering 2022, the Russian Federation's invasion of Ukraine and its global effects on commodity markets, supply chains, inflation, and financial conditions have steepened the slowdown in global growth. In particular, the war in Ukraine is leading to soaring prices and volatility in energy markets, with improvements in activity in energy exporters more than offset by headwinds to activity in most other economies. The invasion of Ukraine has also led to a significant increase in agricultural commodity prices, which is exacerbating food insecurity and extreme poverty in many emerging market and developing economies.

Numerous risks could further derail what is now a precarious recovery. Among them is, in particular, the possibility of stubbornly high global inflation accompanied by tepid growth, reminiscent of the stagflation of the 1970s. This could eventually result in a sharp tightening of monetary policy in advanced economies to rein in inflation, lead to surging borrowing costs, and possibly culminate in financial stress in some emerging market and developing economies. A forceful and wide-ranging policy response is

required by policy makers in these economies and the global community to boost growth, bolster macroeconomic frameworks, reduce financial vulnerabilities, provide support to vulnerable population groups, and attenuate the long-term impacts of the global shocks of recent years.

In this complex international situation, BisReport published Global Glacial Methacrylic Acid (GMAA) Market Status, Trends and COVID-19 Impact Report 2022, which provides a comprehensive analysis of the global Glacial Methacrylic Acid (GMAA) market. This Report covers the manufacturer data, including: sales volume, price, revenue, gross margin, business distribution etc., these data help the consumer know about the competitors better. This report also covers all the regions and countries of the world, which shows the regional development status, including market size, volume and value, as well as price data. Besides, the report also covers segment data, including: type segment, application segment, channel segment etc. historic data period is from 2017-2022, the forecast data from 2023-2028.

Section 1: 100 USD——Market Overview

Section (2 3): 1200 USD——Manufacturer Detail

Dow Chemical

Opes International

Brancotex

BASF

Zhenjiang Union Chemicals Industry

Cadence Chemical

Section 4: 900 USD——Region Segment

North America (United States, Canada, Mexico)

South America (Brazil, Argentina, Other)

Asia Pacific (China, Japan, India, Korea, Southeast Asia)

Europe (Germany, UK, France, Spain, Russia, Italy)

Middle East and Africa (Middle East, South Africa, Egypt)

Section (5 6 7): 700 USD——

Product Type Segment

Purity Above 99.0%

Purity Above 99.5%

Application Segment

Paints and Adhesives

Ion Exchange

Flocculants

Soil Improvers

Auxiliary Products for Leather and Textile Industry

Channel Segment (Direct Sales, Distribution Channel)

Section 8: 500 USD——Market Forecast (2023-2028)

Section 9: 600 USD——Downstream Customers

Section 10: 200 USD——Raw Material and Manufacturing Cost

Section 11: 500 USD——Conclusion

Section 12: Research Method and Data Source

Contents

SECTION 1 GLACIAL METHACRYLIC ACID (GMAA) MARKET OVERVIEW

- 1.1 Glacial Methacrylic Acid (GMAA) Market Scope
- 1.2 COVID-19 Impact on Glacial Methacrylic Acid (GMAA) Market
- 1.3 Global Glacial Methacrylic Acid (GMAA) Market Status and Forecast Overview
 - 1.3.1 Global Glacial Methacrylic Acid (GMAA) Market Status 2017-2022
 - 1.3.2 Global Glacial Methacrylic Acid (GMAA) Market Forecast 2023-2028
- 1.4 Global Glacial Methacrylic Acid (GMAA) Market Overview by Region
- 1.5 Global Glacial Methacrylic Acid (GMAA) Market Overview by Type
- 1.6 Global Glacial Methacrylic Acid (GMAA) Market Overview by Application

SECTION 2 GLOBAL GLACIAL METHACRYLIC ACID (GMAA) MARKET MANUFACTURER SHARE

- 2.1 Global Manufacturer Glacial Methacrylic Acid (GMAA) Sales Volume
- 2.2 Global Manufacturer Glacial Methacrylic Acid (GMAA) Business Revenue
- 2.3 Global Manufacturer Glacial Methacrylic Acid (GMAA) Price

SECTION 3 MANUFACTURER GLACIAL METHACRYLIC ACID (GMAA) BUSINESS INTRODUCTION

- 3.1 Dow Chemical Glacial Methacrylic Acid (GMAA) Business Introduction
 - 3.1.1 Dow Chemical Glacial Methacrylic Acid (GMAA) Sales Volume, Price, Revenue and Gross margin 2017-2022
 - 3.1.2 Dow Chemical Glacial Methacrylic Acid (GMAA) Business Distribution by Region
 - 3.1.3 Dow Chemical Interview Record
 - 3.1.4 Dow Chemical Glacial Methacrylic Acid (GMAA) Business Profile
 - 3.1.5 Dow Chemical Glacial Methacrylic Acid (GMAA) Product Specification
- 3.2 Opes International Glacial Methacrylic Acid (GMAA) Business Introduction
 - 3.2.1 Opes International Glacial Methacrylic Acid (GMAA) Sales Volume, Price, Revenue and Gross margin 2017-2022
 - 3.2.2 Opes International Glacial Methacrylic Acid (GMAA) Business Distribution by Region
 - 3.2.3 Interview Record
 - 3.2.4 Opes International Glacial Methacrylic Acid (GMAA) Business Overview
 - 3.2.5 Opes International Glacial Methacrylic Acid (GMAA) Product Specification
- 3.3 Manufacturer three Glacial Methacrylic Acid (GMAA) Business Introduction

3.3.1 Manufacturer three Glacial Methacrylic Acid (GMAA) Sales Volume, Price, Revenue and Gross margin 2017-2022

3.3.2 Manufacturer three Glacial Methacrylic Acid (GMAA) Business Distribution by Region

3.3.3 Interview Record

3.3.4 Manufacturer three Glacial Methacrylic Acid (GMAA) Business Overview

3.3.5 Manufacturer three Glacial Methacrylic Acid (GMAA) Product Specification

3.4 Manufacturer four Glacial Methacrylic Acid (GMAA) Business Introduction

3.4.1 Manufacturer four Glacial Methacrylic Acid (GMAA) Sales Volume, Price, Revenue and Gross margin 2017-2022

3.4.2 Manufacturer four Glacial Methacrylic Acid (GMAA) Business Distribution by Region

3.4.3 Interview Record

3.4.4 Manufacturer four Glacial Methacrylic Acid (GMAA) Business Overview

3.4.5 Manufacturer four Glacial Methacrylic Acid (GMAA) Product Specification

3.5

3.6

SECTION 4 GLOBAL GLACIAL METHACRYLIC ACID (GMAA) MARKET SEGMENT (BY REGION)

4.1 North America Country

4.1.1 United States Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.1.2 Canada Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.1.3 Mexico Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.2 South America Country

4.2.1 Brazil Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.2.2 Argentina Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.3 Asia Pacific

4.3.1 China Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.3.2 Japan Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.3.3 India Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.3.4 Korea Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.3.5 Southeast Asia Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.4 Europe Country

4.4.1 Germany Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.4.2 UK Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.4.3 France Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.4.4 Spain Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.4.5 Russia Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.4.6 Italy Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis 2017-2022

4.5 Middle East and Africa

4.5.1 Middle East Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.5.2 South Africa Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.5.3 Egypt Glacial Methacrylic Acid (GMAA) Market Size and Price Analysis

2017-2022

4.6 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Region) Analysis

2017-2022

4.7 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Country) Analysis

2017-2022

4.8 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Region) Analysis

SECTION 5 GLOBAL GLACIAL METHACRYLIC ACID (GMAA) MARKET SEGMENT (BY PRODUCT TYPE)

5.1 Product Introduction by Type

5.1.1 Purity Above 99.0% Product Introduction

5.1.2 Purity Above 99.5% Product Introduction

5.2 Global Glacial Methacrylic Acid (GMAA) Sales Volume (by Type) 2017-2022

5.3 Global Glacial Methacrylic Acid (GMAA) Market Size (by Type) 2017-2022

5.4 Different Glacial Methacrylic Acid (GMAA) Product Type Price 2017-2022

5.5 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Type) Analysis

SECTION 6 GLOBAL GLACIAL METHACRYLIC ACID (GMAA) MARKET SEGMENT (BY APPLICATION)

6.1 Global Glacial Methacrylic Acid (GMAA) Sales Volume (by Application) 2017-2022

6.2 Global Glacial Methacrylic Acid (GMAA) Market Size (by Application) 2017-2022

6.3 Glacial Methacrylic Acid (GMAA) Price in Different Application Field 2017-2022

6.4 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Application) Analysis

SECTION 7 GLOBAL GLACIAL METHACRYLIC ACID (GMAA) MARKET SEGMENT (BY CHANNEL)

7.1 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Channel) Sales Volume and Share 2017-2022

7.2 Global Glacial Methacrylic Acid (GMAA) Market Segment (By Channel) Analysis

SECTION 8 GLOBAL GLACIAL METHACRYLIC ACID (GMAA) MARKET FORECAST 2023-2028

8.1 Glacial Methacrylic Acid (GMAA) Segment Market Forecast 2023-2028 (By Region)

8.2 Glacial Methacrylic Acid (GMAA) Segment Market Forecast 2023-2028 (By Type)

8.3 Glacial Methacrylic Acid (GMAA) Segment Market Forecast 2023-2028 (By Application)

8.4 Glacial Methacrylic Acid (GMAA) Segment Market Forecast 2023-2028 (By Channel)

8.5 Global Glacial Methacrylic Acid (GMAA) Price (USD/Unit) Forecast

SECTION 9 GLACIAL METHACRYLIC ACID (GMAA) APPLICATION AND CUSTOMER ANALYSIS

9.1 Paints and Adhesives Customers

9.2 Ion Exchange Customers

9.3 Flocculants Customers

9.4 Soil Improvers Customers

9.5 Auxiliary Products for Leather and Textile Industry Customers

SECTION 10 GLACIAL METHACRYLIC ACID (GMAA) MANUFACTURING COST OF ANALYSIS

10.1 Raw Material Cost Analysis

10.2 Labor Cost Analysis

10.3 Cost Overview

SECTION 11 CONCLUSION

12 RESEARCH METHOD AND DATA SOURCE

Chart And Figure

CHART AND FIGURE

Figure Glacial Methacrylic Acid (GMAA) Product Picture

Chart Global Glacial Methacrylic Acid (GMAA) Market Size (with or without the impact of COVID-19)

Chart Global Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Growth Rate 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Size (Million \$) and Growth Rate 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Growth Rate 2023-2028

Chart Global Glacial Methacrylic Acid (GMAA) Market Size (Million \$) and Growth Rate 2023-2028

Table Global Glacial Methacrylic Acid (GMAA) Market Overview by Region

Table Global Glacial Methacrylic Acid (GMAA) Market Overview by Type

Table Global Glacial Methacrylic Acid (GMAA) Market Overview by Application

Chart 2017-2022 Global Manufacturer Glacial Methacrylic Acid (GMAA) Sales Volume (Units)

Chart 2017-2022 Global Manufacturer Glacial Methacrylic Acid (GMAA) Sales Volume Share

Chart 2017-2022 Global Manufacturer Glacial Methacrylic Acid (GMAA) Business Revenue (Million USD)

Chart 2017-2022 Global Manufacturer Glacial Methacrylic Acid (GMAA) Business Revenue Share

Chart 2017-2022 Global Manufacturer Glacial Methacrylic Acid (GMAA) Business Price (USD/Unit)

Chart Dow Chemical Glacial Methacrylic Acid (GMAA) Sales Volume, Price, Revenue and Gross margin 2017-2022

Chart Dow Chemical Glacial Methacrylic Acid (GMAA) Business Distribution

Chart Dow Chemical Interview Record (Partly)

Chart Dow Chemical Glacial Methacrylic Acid (GMAA) Business Profile

Table Dow Chemical Glacial Methacrylic Acid (GMAA) Product Specification

Chart United States Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart United States Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Canada Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size

(Million \$) 2017-2022

Chart Canada Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Mexico Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Mexico Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Brazil Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Brazil Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Argentina Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Argentina Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart China Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart China Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Japan Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Japan Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart India Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart India Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Korea Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Korea Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Southeast Asia Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Southeast Asia Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Germany Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Germany Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart UK Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart UK Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart France Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart France Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Spain Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Spain Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Russia Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Russia Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Italy Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Italy Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Middle East Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Middle East Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart South Africa Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart South Africa Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Egypt Glacial Methacrylic Acid (GMAA) Sales Volume (Units) and Market Size (Million \$) 2017-2022

Chart Egypt Glacial Methacrylic Acid (GMAA) Sales Price (USD/Unit) 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Sales Volume (Units) by Region 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Sales Volume (Units) Share by Region 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Market size (Million \$) by Region 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Market size (Million \$) Share by Region 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Sales Volume (Units) by Country 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Sales Volume (Units) Share by Country 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Market size (Million \$) by Country 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment Market size (Million \$) Share by Country 2017-2022

Chart Purity Above 99.0% Product Figure

Chart Purity Above 99.0% Product Description

Chart Purity Above 99.5% Product Figure

Chart Purity Above 99.5% Product Description

Chart Glacial Methacrylic Acid (GMAA) Sales Volume by Type (Units) 2017-2022

Chart Glacial Methacrylic Acid (GMAA) Sales Volume (Units) Share by Type

Chart Glacial Methacrylic Acid (GMAA) Market Size by Type (Million \$) 2017-2022

Chart Glacial Methacrylic Acid (GMAA) Market Size (Million \$) Share by Type

Chart Different Glacial Methacrylic Acid (GMAA) Product Type Price (USD/Unit)
2017-2022

Chart Glacial Methacrylic Acid (GMAA) Sales Volume by Application (Units) 2017-2022

Chart Glacial Methacrylic Acid (GMAA) Sales Volume (Units) Share by Application

Chart Glacial Methacrylic Acid (GMAA) Market Size by Application (Million \$) 2017-2022

Chart Glacial Methacrylic Acid (GMAA) Market Size (Million \$) Share by Application

Chart Glacial Methacrylic Acid (GMAA) Price in Different Application Field 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment (By Channel) Sales
Volume (Units) 2017-2022

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment (By Channel) Share
2017-2022

Chart Glacial Methacrylic Acid (GMAA) Segment Market Sales Volume (Units) Forecast
(by Region) 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Segment Market Sales Volume Forecast (By
Region) Share 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Segment Market Size (Million USD) Forecast
(By Region) 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Segment Market Size Forecast (By Region)
Share 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Type) Volume (Units)
2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Type) Volume (Units)
Share 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Type) Market Size (Million
\$) 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Type) Market Size (Million
\$) 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Application) Market Size
(Volume) 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Application) Market Size
(Volume) Share 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Application) Market Size
(Value) 2023-2028

Chart Glacial Methacrylic Acid (GMAA) Market Segment (By Application) Market Size
(Value) Share 2023-2028

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment (By Channel) Sales
Volume (Units) 2023-2028

Chart Global Glacial Methacrylic Acid (GMAA) Market Segment (By Channel) Share
2023-2028

Chart Global Glacial Methacrylic Acid (GMAA) Price Forecast 2023-2028

Chart Paints and Adhesives Customers

Chart Ion Exchange Customers

Chart Flocculants Customers

Chart Soil Improvers Customers

Chart Auxiliary Products for Leather and Textile Industry Customers

I would like to order

Product name: Global Glacial Methacrylic Acid (GMAA) Market Status, Trends and COVID-19 Impact Report 2022

Product link: <https://marketpublishers.com/r/G5809434394EEN.html>

Price: US\$ 2,350.00 (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/G5809434394EEN.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

