

Global High Temperature Electrical Insulating Film Market Research Report 2017-2027

<https://marketpublishers.com/r/G4F2340872CEN.html>

Date: June 2022

Pages: 81

Price: US\$ 1,800.00 (Single User License)

ID: G4F2340872CEN

Abstracts

SUMMARY

High Temperature Electrical Insulating Film is a material, which has a high temperature resistance and optimal electrical insulation. Typically, these specialty materials also offer other desirable properties, such as resistance to moisture absorption, flame or fire, cold temperatures, and chemicals.

The global High Temperature Electrical Insulating Film market will reach xxx Million USD in 2022 with CAGR xx% 2022-2027. The objective of report is to define, segment, and project the market on the basis of product type, application, and region, and to describe the content about the factors influencing market dynamics, policy, economic, technology and market entry etc.

Based on products type, the report describes major products type share of regional market. Products mentioned as follows:

PPS Film

PEEK Film

Others

Leading vendors in the market are included based on profile, business performance etc. Vendors mentioned as follows:

TORAY

DuPont

Victrex

Mitsubishi Plastics

Mitsubishi Plastics

Based on Application, the report describes major application share of regional market. Application mentioned as follows:

Capacitors

Industrial Tape

Electronics Components

Others

Based on region, the report describes major regions market by products and application. Regions mentioned as follows:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

Contents

1 MARKET OVERVIEW

1.1 Objectives of Research

1.1.1 Definition

Figure High Temperature Electrical Insulating Film Picture

1.1.2 Specifications

Table Product Specifications of High Temperature Electrical Insulating Film

1.2 Market Segment

1.2.1 by Type

Table Products Segment of High Temperature Electrical Insulating Film

Table Global High Temperature Electrical Insulating Film Market by Type, 2017-2027 (USD Million)

1.2.1.1 PPS Film

Table PPS Film Overview

1.2.1.2 PEEK Film

Table PEEK Film Overview

1.2.1.3 Others

Table Others Overview

1.2.2 by Application

Table Application Segment of High Temperature Electrical Insulating Film

Table Global High Temperature Electrical Insulating Film Market by Application, 2017-2027 (USD Million)

1.2.2.1 Capacitors

Table Capacitors Overview

1.2.2.2 Industrial Tape

Table Industrial Tape Overview

1.2.2.3 Electronics Components

Table Electronics Components Overview

1.2.2.4 Others

Table Others Overview

1.2.3 by Regions

Table Global High Temperature Electrical Insulating Film Market by Region, 2017-2027 (USD Million)

2 INDUSTRY CHAIN

2.1 Industry Chain Structure

Figure Industry Chain Structure of High Temperature Electrical Insulating Film

2.2 Upstream

Table Cost of High Temperature Electrical Insulating Film

Figure Manufacturing Process of High Temperature Electrical Insulating Film

2.3 Market

2.3.1 SWOT

Figure SWOT of High Temperature Electrical Insulating Film

2.3.2 Dynamics

Table Market Dynamics

3 ENVIRONMENTAL ANALYSIS

3.1 Policy

Table Policy of High Temperature Electrical Insulating Film

3.2 Economic

Table GDP of Major Countries

3.3 Technology

Table Technology of High Temperature Electrical Insulating Film

3.4 Market Entry

Table Market Entry of High Temperature Electrical Insulating Film

4 MARKET SEGMENTATION BY TYPE

4.1 Market Size

4.1.1 PPS Film Market, 2017-2021

Figure PPS Film Market Size and Growth, 2017-2021 (USD Million)

Figure PPS Film Market Size and Growth, 2017-2021 (in Volume)

Table PPS Film CAGR by Revenue and Volume, 2017-2021

4.1.2 PEEK Film Market, 2017-2021

Figure PEEK Film Market Size and Growth, 2017-2021 (USD Million)

Figure PEEK Film Market Size and Growth, 2017-2021 (in Volume)

Table PEEK Film CAGR by Revenue and Volume, 2017-2021

4.1.3 Others Market, 2017-2021

Figure Others Market Size and Growth, 2017-2021 (USD Million)

Figure Others Market Size and Growth, 2017-2021 (in Volume)

Table Others CAGR by Revenue and Volume, 2017-2021

4.2 Market Forecast

4.2.1 PPS Film Market Forecast, 2022-2027

Figure PPS Film Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure PPS Film Market Estimates and Forecasts, 2022-2027 (in Volume)

Table PPS Film CAGR by Revenue and Volume, 2017-2027

4.2.2 PEEK Film Market Forecast, 2022-2027

Figure PEEK Film Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure PEEK Film Market Estimates and Forecasts, 2022-2027 (in Volume)

Table PEEK Film CAGR by Revenue and Volume, 2017-2027

4.2.3 Others Market Forecast, 2022-2027

Figure Others Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Others Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Others CAGR by Revenue and Volume, 2017-2027

5 MARKET SEGMENTATION BY APPLICATION

5.1 Market Size

5.1.1 Capacitors Market, 2017-2021

Figure Capacitors Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Table Capacitors CAGR by Revenue and Volume, 2017-2021

5.1.2 Industrial Tape Market, 2017-2021

Figure Industrial Tape Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Table Industrial Tape CAGR by Revenue and Volume, 2017-2021

5.1.3 Electronics Components Market, 2017-2021

Figure Electronics Components Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Table Electronics Components CAGR by Revenue and Volume, 2017-2021

5.1.4 Others Market, 2017-2021

Figure Others Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Table Others CAGR by Revenue and Volume, 2017-2021

5.2 Market Forecast

5.2.1 Capacitors Market Forecast, 2022-2027

Figure Capacitors Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Capacitors Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Capacitors CAGR by Revenue and Volume, 2022-2027

5.2.2 Industrial Tape Market Forecast, 2022-2027

Figure Industrial Tape Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Industrial Tape Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Industrial Tape CAGR by Revenue and Volume, 2022-2027

5.2.3 Electronics Components Market Forecast, 2022-2027

Figure Electronics Components Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Electronics Components Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Electronics Components CAGR by Revenue and Volume, 2022-2027

5.2.4 Others Market Forecast, 2022-2027

Figure Others Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Others Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Others CAGR by Revenue and Volume, 2022-2027

6 MARKET SEGMENTATION BY REGION

6.1 Market Size

6.1.1 Asia-Pacific

6.1.1.1 Asia-Pacific Market, 2017-2021

Figure Asia-Pacific Market Size and Growth, 2017-2021 (USD Million)

Figure Asia-Pacific Market Size and Growth, 2017-2021 (in Volume)

Table Asia-Pacific CAGR by Revenue and Volume, 2017-2021

6.1.1.2 Asia-Pacific Market by Type

Figure Asia-Pacific Market Size by Type

Figure Asia-Pacific Market Share by Type

6.1.1.3 Asia-Pacific Market by Application

Figure Asia-Pacific Market Size by Application

Figure Asia-Pacific Market Share by Application

6.1.2 North America

6.1.2.1 North America Market, 2017-2021

Figure North America Market Size and Growth, 2017-2021 (USD Million)

Figure North America Market Size and Growth, 2017-2021 (in Volume)

Table North America CAGR by Revenue and Volume, 2017-2021

6.1.2.2 North America Market by Type

Figure North America Market Size by Type

Figure North America Market Share by Type

6.1.2.3 North America Market by Application

Figure North America Market Size by Application

Figure North America Market Share by Application

6.1.3 Europe

6.1.3.1 Europe Market, 2017-2021

Figure Europe Market Size and Growth, 2017-2021 (USD Million)

Figure Europe Market Size and Growth, 2017-2021 (in Volume)

Table Europe CAGR by Revenue and Volume, 2017-2021

6.1.3.2 Europe Market by Type

Figure Europe Market Size by Type

Figure Europe Market Share by Type

6.1.3.3 Europe Market by Application

Figure Europe Market Size by Application

Figure Europe Market Share by Application

6.1.4 South America

6.1.4.1 South America Market, 2017-2021

Figure South America Market Size and Growth, 2017-2021 (USD Million)

Figure South America Market Size and Growth, 2017-2021 (in Volume)

Table South America CAGR by Revenue and Volume, 2017-2021

6.1.4.2 South America Market by Type

Figure South America Market Size by Type

Figure South America Market Share by Type

6.1.4.3 South America Market by Application

Figure South America Market Size by Application

Figure South America Market Share by Application

6.1.5 Middle East & Africa

6.1.5.1 Middle East & Africa Market, 2017-2021

Figure Middle East & Africa Market Size and Growth, 2017-2021 (USD Million)

Figure Middle East & Africa Market Size and Growth, 2017-2021 (in Volume)

Table Middle East & Africa CAGR by Revenue and Volume, 2017-2021

6.1.5.2 Middle East & Africa Market by Type

Figure Middle East & Africa Market Size by Type

Figure Middle East & Africa Market Share by Type

6.1.5.3 Middle East & Africa Market by Application

Figure Middle East & Africa Market Size by Application

Figure Middle East & Africa Market Share by Application

6.2 Market Forecast

6.2.1 Asia-Pacific Market Forecast, 2022-2027

Figure Asia-Pacific Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Asia-Pacific Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Asia-Pacific CAGR by Revenue and Volume, 2022-2027

6.2.2 North America Market Forecast, 2022-2027

Figure North America Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure North America Market Estimates and Forecasts, 2022-2027 (in Volume)

Table North America CAGR by Revenue and Volume, 2022-2027

6.2.3 Europe Market Forecast, 2022-2027

Figure Europe Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Europe Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Europe CAGR by Revenue and Volume, 2022-2027

6.2.4 South America Market Forecast, 2022-2027

Figure South America Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure South America Market Estimates and Forecasts, 2022-2027 (in Volume)

Table South America CAGR by Revenue and Volume, 2022-2027

6.2.5 Middle East & Africa Market Forecast, 2022-2027

Figure Middle East & Africa Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Middle East & Africa Market Estimates and Forecasts, 2022-2027 (in Volume)

Table Middle East & Africa CAGR by Revenue and Volume, 2022-2027

7 MARKET COMPETITIVE

7.1 Global Market by Vendors

Table Global High Temperature Electrical Insulating Film Market by Vendors, 2017-2021 (in Volume)

Table Global High Temperature Electrical Insulating Film Market Share by Vendors, 2017-2021 (USD Million)

Table Global High Temperature Electrical Insulating Film Market Share by Vendors, 2017-2021 (in Volume)

7.2 Market Concentration

Figure High Temperature Electrical Insulating Film Market Concentration by Region

7.3 Price & Factors

Table Price Factors List

7.4 Marketing Channel

Figure Marketing Channels Overview

8 MAJOR VENDORS

8.1 TORAY

Table TORAY Profile List

Table Microecological Modulator Operating Data of TORAY (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

8.2 DuPont

Table DuPont Profile List

Table Microecological Modulator Operating Data of DuPont (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

8.3 Victrex

Table Victrex Profile List

Table Microecological Modulator Operating Data of Victrex (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

8.4 Mitsubishi Plastics

Table Mitsubishi Plastics Profile List

Table Microecological Modulator Operating Data of Mitsubishi Plastics (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

8.5 Mitsubishi Plastics

Table Mitsubishi Plastics Profile List

Table Microecological Modulator Operating Data of Mitsubishi Plastics (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

9 CONCLUSION

List Of Tables

LIST OF TABLES

Table Product Specifications of Microecological Modulator
Table Products Segment of Microecological Modulator
Table Global Microecological Modulator Market by Type, 2017-2027 (USD Million)
Table Probiotics Overview
Table Prebiotics Overview
Table Synbiotics Overview
Table Application Segment of Microecological Modulator
Table Global Microecological Modulator Market by Application, 2017-2027 (USD Million)
Table Animal Overview
Table Human Overview
Table Global Microecological Modulator Market by Region, 2017-2027 (USD Million)
Table Cost of Microecological Modulator
Table Market Dynamics
Table Policy of Microecological Modulator
Table GDP of Major Countries
Table Technology of Microecological Modulator
Table Market Entry of Microecological Modulator
Table Probiotics CAGR by Revenue and Volume, 2017-2021
Table Prebiotics CAGR by Revenue and Volume, 2017-2021
Table Synbiotics CAGR by Revenue and Volume, 2017-2021
Table Probiotics CAGR by Revenue and Volume, 2017-2027
Table Prebiotics CAGR by Revenue and Volume, 2017-2027
Table Synbiotics CAGR by Revenue and Volume, 2017-2027
Table Animal CAGR by Revenue and Volume, 2017-2021
Table Human CAGR by Revenue and Volume, 2017-2021
Table Animal CAGR by Revenue and Volume, 2022-2027
Table Human CAGR by Revenue and Volume, 2022-2027
Table Asia-Pacific CAGR by Revenue and Volume, 2017-2021
Table North America CAGR by Revenue and Volume, 2017-2021
Table Europe CAGR by Revenue and Volume, 2017-2021
Table South America CAGR by Revenue and Volume, 2017-2021
Table Middle East & Africa CAGR by Revenue and Volume, 2017-2021
Table Asia-Pacific CAGR by Revenue and Volume, 2022-2027
Table North America CAGR by Revenue and Volume, 2022-2027
Table Europe CAGR by Revenue and Volume, 2022-2027

Table South America CAGR by Revenue and Volume, 2022-2027

Table Middle East & Africa CAGR by Revenue and Volume, 2022-2027

Table Global Microecological Modulator Market by Vendors, 2017-2021 (in Volume)

Table Global Microecological Modulator Market Share by Vendors, 2017-2021 (USD Million)

Table Global Microecological Modulator Market Share by Vendors, 2017-2021 (in Volume)

Table Price Factors List

Table Beijing Dabeinong Technology Profile List

Table Microecological Modulator Operating Data of Beijing Dabeinong Technology (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Beijing Gendone Agricultural Technology Profile List

Table Microecological Modulator Operating Data of Beijing Gendone Agricultural Technology (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table China National Agricultural Development Group Profile List

Table Microecological Modulator Operating Data of China National Agricultural Development Group (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Dalian Sanyi Animal Medicine Profile List

Table Microecological Modulator Operating Data of Dalian Sanyi Animal Medicine (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Guangdong Haid Group Profile List

Table Microecological Modulator Operating Data of Guangdong Haid Group (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Guangdong VTR Bio-Tech Profile List

Table Microecological Modulator Operating Data of Guangdong VTR Bio-Tech (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Inner Mongolia ShuangQi Pharmaceutical Profile List

Table Microecological Modulator Operating Data of Inner Mongolia ShuangQi Pharmaceutical (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Jiangsu Ivkee biotechnology Profile List

Table Microecological Modulator Operating Data of Jiangsu Ivkee biotechnology (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Livzon Pharmaceutical Group Profile List

Table Microecological Modulator Operating Data of Livzon Pharmaceutical Group (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Miyarisan Pharmaceutical Profile List

Table Microecological Modulator Operating Data of Miyarisan Pharmaceutical (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Northeast Pharm Profile List

Table Microecological Modulator Operating Data of Northeast Pharm (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Novozymes (China) Profile List

Table Microecological Modulator Operating Data of Novozymes (China) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Qingdao Vland Biotech Profile List

Table Microecological Modulator Operating Data of Qingdao Vland Biotech (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Shandong Baolai-Leelai Bio-Industrial Profile List

Table Microecological Modulator Operating Data of Shandong Baolai-Leelai Bio-Industrial (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Shandong Sukahan Bio-Technology Profile List

Table Microecological Modulator Operating Data of Shandong Sukahan Bio-Technology (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Shanghai Sine Pharmacy Profile List

Table Microecological Modulator Operating Data of Shanghai Sine Pharmacy (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Shuangdong Huaerkang Biological Technology Profile List

Table Microecological Modulator Operating Data of Shuangdong Huaerkang Biological Technology (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

List Of Figures

LIST OF FIGURES

Figure High Temperature Electrical Insulating Film Picture

Figure Industry Chain Structure of High Temperature Electrical Insulating Film

Figure Manufacturing Process of High Temperature Electrical Insulating Film

Figure SWOT of High Temperature Electrical Insulating Film

Figure PPS Film Market Size and Growth, 2017-2021 (USD Million)

Figure PPS Film Market Size and Growth, 2017-2021 (in Volume)

Figure PEEK Film Market Size and Growth, 2017-2021 (USD Million)

Figure PEEK Film Market Size and Growth, 2017-2021 (in Volume)

Figure Others Market Size and Growth, 2017-2021 (USD Million)

Figure Others Market Size and Growth, 2017-2021 (in Volume)

Figure PPS Film Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure PPS Film Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure PEEK Film Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure PEEK Film Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure Others Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Others Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure Capacitors Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Figure Industrial Tape Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Figure Electronics Components Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Figure Others Market Size and Growth, 2017-2021 (USD Million)

Figure Market Size and Growth, 2017-2021 (in Volume)

Figure Capacitors Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Capacitors Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure Industrial Tape Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Industrial Tape Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure Electronics Components Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Electronics Components Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure Others Market Estimates and Forecasts, 2022-2027 (USD Million)

Figure Others Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure Asia-Pacific Market Size and Growth, 2017-2021 (USD Million)

Figure Asia-Pacific Market Size and Growth, 2017-2021 (in Volume)
Figure Asia-Pacific Market Size by Type
Figure Asia-Pacific Market Share by Type
Figure Asia-Pacific Market Size by Application
Figure Asia-Pacific Market Share by Application
Figure North America Market Size and Growth, 2017-2021 (USD Million)
Figure North America Market Size and Growth, 2017-2021 (in Volume)
Figure North America Market Size by Type
Figure North America Market Share by Type
Figure North America Market Size by Application
Figure North America Market Share by Application
Figure Europe Market Size and Growth, 2017-2021 (USD Million)
Figure Europe Market Size and Growth, 2017-2021 (in Volume)
Figure Europe Market Size by Type
Figure Europe Market Share by Type
Figure Europe Market Size by Application
Figure Europe Market Share by Application
Figure South America Market Size and Growth, 2017-2021 (USD Million)
Figure South America Market Size and Growth, 2017-2021 (in Volume)
Figure South America Market Size by Type
Figure South America Market Share by Type
Figure South America Market Size by Application
Figure South America Market Share by Application
Figure Middle East & Africa Market Size and Growth, 2017-2021 (USD Million)
Figure Middle East & Africa Market Size and Growth, 2017-2021 (in Volume)
Figure Middle East & Africa Market Size by Type
Figure Middle East & Africa Market Share by Type
Figure Middle East & Africa Market Size by Application
Figure Middle East & Africa Market Share by Application
Figure Asia-Pacific Market Estimates and Forecasts, 2022-2027 (USD Million)
Figure Asia-Pacific Market Estimates and Forecasts, 2022-2027 (in Volume)
Figure North America Market Estimates and Forecasts, 2022-2027 (USD Million)
Figure North America Market Estimates and Forecasts, 2022-2027 (in Volume)
Figure Europe Market Estimates and Forecasts, 2022-2027 (USD Million)
Figure Europe Market Estimates and Forecasts, 2022-2027 (in Volume)
Figure South America Market Estimates and Forecasts, 2022-2027 (USD Million)
Figure South America Market Estimates and Forecasts, 2022-2027 (in Volume)
Figure Middle East & Africa Market Estimates and Forecasts, 2022-2027 (USD Million)
Figure Middle East & Africa Market Estimates and Forecasts, 2022-2027 (in Volume)

Figure High Temperature Electrical Insulating Film Market Concentration by Region
Figure Marketing Channels Overview

I would like to order

Product name: Global High Temperature Electrical Insulating Film Market Research Report 2017-2027

Product link: <https://marketpublishers.com/r/G4F2340872CEN.html>

Price: US\$ 1,800.00 (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/G4F2340872CEN.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