

# 2018 Global Copper Foil Industry Report - History, Present and Future

https://marketpublishers.com/r/24197EE53220EN.html

Date: January 2019

Pages: 138

Price: US\$ 3,500.00 (Single User License)

ID: 24197EE53220EN

### **Abstracts**

The global market size of Copper Foil is \$XX million in 2018 with XX CAGR from 2014 to 2018, and it is expected to reach \$XX million by the end of 2024 with a CAGR of XX% from 2019 to 2024.

There are 3 key segments covered in this report: geography segment, end use/application segment and competitor segment.

For geography segment, regional supply, application-wise and type-wise demand, major players, price is presented from 2013 to 2023. This report coverss following regions:

North America

South America

Asia & Pacific

Europe

MEA (Middle East and Africa)

The key countries in each region are taken into consideration as well, such as United States, China, Japan, India, Korea, ASEAN, Germany, France, UK, Italy, Spain, CIS, and Brazil etc.

For end use/application segment, this report focuses on the status and outlook for key



applications. End users also can be listed.

For competitor segment, the report includes global key players of Copper Foil as well as some small players. The compnaies include:

Fukuda, Mitsui Mining& Smelting, Hitachi Cable, Furukawa Electric, JX Nippon Mining& Metal, Olin Brass, Circuit Foil, LS Mtron, Iljin Materials, CCP, NPC, Co-Tech, LYCT, Jinbao Electronics, Kingboard et al.

The information for each competitor includes:

Company Profile

Main Business Information

**SWOT Analysis** 

Sales, Revenue, Price and Gross Margin

Market Share

We also can offer customized report to fulfill special requirements of our clients. Regional and Countries report can be provided as well.



### **Contents**

### **CHAPTER ONE EXECUTIVE SUMMARY**

### CHAPTER TWO ABBREVIATION AND ACRONYMS

### **CHAPTER THREE PREFACE**

- 3.1 RESEARCH SCOPE
- 3.2 RESEARCH SOURCES
  - 3.2.1 Primary Sources
  - 3.2.2 Secondary Sources
  - 3.2.3 Assumptions

### **CHAPTER FOUR MARKET LANDSCAPE**

- 4.1 MARKET OVERVIEW
- 4.2 CLASSIFICATION/TYPES
- 4.3 APPLICATION/END USERS

#### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 INTRODUCTION
- 5.2 DRIVERS
- **5.3 RESTRAINTS**
- **5.4 OPPORTUNITIES**
- 5.5 THREATS

### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 UPSTREAM/SUPPLIERS ANALYSIS
- 6.2 Copper Foil ANALYSIS
- 6.2.1 Technology Analysis
- 6.2.2 Cost Analysis
- 6.2.3 Market Channel Analysis
- 6.3 DOWNSTREAM BUYERS/END USERS

### **CHAPTER 7 LATEST MARKET DYNAMICS**



- 7.1 LATEST NEWS
- 7.2 MERGER AND ACQUISITION
- 7.3 PLANNED/FUTURE PROJECT
- 7.4 POLICY DYNAMICS

### **CHAPTER 8 TRADING ANALYSIS**

- 8.1 EXPORT OF Copper Foil BY REGION
- 8.2 IMPORT OF Copper Foil BY REGION
- 8.3 BALANCE OF TRADE

## CHAPTER 9 HISTORICAL AND FORECAST COPPER FOIL MARKET IN NORTH AMERICA (2014-2024)

- 9.1 Copper Foil MARKET SIZE
- 9.2 Copper Foil DEMAND BY END USE
- 9.3 COMPETITION BY PLAYERS/SUPPLIERS
- 9.4 TYPE SEGMENTATION AND PRICE
- 9.5 KEY COUNTRIES ANALYSIS
  - 9.5.1 US
  - 9.5.2 Canada
  - 9.5.3 Mexico

### CHAPTER 10 HISTORICAL AND FORECAST COPPER FOIL MARKET IN SOUTH AMERICA (2014-2024)

- 10.1 Copper Foil MARKET SIZE
- 10.2 Copper Foil DEMAND BY END USE
- 10.3 COMPETITION BY PLAYERS/SUPPLIERS
- 10.4 TYPE SEGMENTATION AND PRICE
- 10.5 KEY COUNTRIES ANALYSIS
  - 10.5.1 Brazil
  - 10.5.2 Argentina
  - 10.5.3 Chile
  - 10.5.4 Peru

# CHAPTER 11 HISTORICAL AND FORECAST COPPER FOIL MARKET IN ASIA & PACIFIC (2014-2024)



- 11.1 Copper Foil MARKET SIZE
- 11.2 Copper Foil DEMAND BY END USE
- 11.3 COMPETITION BY PLAYERS/SUPPLIERS
- 11.4 TYPE SEGMENTATION AND PRICE
- 11.5 KEY COUNTRIES ANALYSIS
  - 11.5.1 China
  - 11.5.2 India
  - 11.5.3 Japan
  - 11.5.4 South Korea
  - 11.5.5 ASEAN
  - 11.5.6 Australia

### CHAPTER 12 HISTORICAL AND FORECAST COPPER FOIL MARKET IN EUROPE (2014-2024)

- 12.1 Copper Foil MARKET SIZE
- 12.2 Copper Foil DEMAND BY END USE
- 12.3 COMPETITION BY PLAYERS/SUPPLIERS
- 12.4 TYPE SEGMENTATION AND PRICE
- 12.5 KEY COUNTRIES ANALYSIS
  - 12.5.1 Germany
  - 12.5.2 France
  - 12.5.3 UK
  - 12.5.4 Italy
  - 12.5.5 Spain
  - 12.5.6 Belgium
  - 12.5.7 Netherlands
  - 12.5.8 Austria
  - 12.5.9 Poland
  - 12.5.10 Russia

### CHAPTER 13 HISTORICAL AND FORECAST COPPER FOIL MARKET IN MEA (2014-2024)

- 13.1 Copper Foil MARKET SIZE
- 13.2 Copper Foil DEMAND BY END USE
- 13.3 COMPETITION BY PLAYERS/SUPPLIERS
- 13.4 TYPE SEGMENTATION AND PRICE
- 13.5 KEY COUNTRIES ANALYSIS



- 13.5.1 Egypt
- 13.5.2 Iran
- 13.5.3 Israel
- 13.5.4 South Africa
- 13.5.5 GCC
- 13.5.6 Turkey

### CHAPTER 14 SUMMARY FOR GLOBAL COPPER FOIL MARKET (2014-2019)

- 14.1 Copper Foil MARKET SIZE
- 14.2 Copper Foil DEMAND BY END USE
- 14.3 COMPETITION BY PLAYERS/SUPPLIERS
- 14.4 TYPE SEGMENTATION AND PRICE

### **CHAPTER 15 GLOBAL COPPER FOIL MARKET FORECAST (2019-2024)**

- 15.1 Copper Foil MARKET SIZE FORECAST
- 15.2 Copper Foil DEMAND FORECAST
- 15.3 COMPETITION BY PLAYERS/SUPPLIERS
- 15.4 TYPE SEGMENTATION AND PRICE FORECAST

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS (FUKUDA, MITSUI MINING& SMELTING, HITACHI CABLE, FURUKAWA ELECTRIC, JX NIPPON MINING& METAL, OLIN BRASS, CIRCUIT FOIL, LS MTRON, ILJIN MATERIALS, CCP, NPC, CO-TECH, LYCT, JINBAO ELECTRONICS, KINGBOARD ET AL.)

- 16.1 COMPANY A
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and Copper Foil Information
  - 16.1.3 SWOT Analysis of Company A
  - 16.1.4 Company A Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)
- 16.2 COMPANY B
  - 16.2.1 Company Profile
  - 16.2.2 Main Business and Copper Foil Information
  - 16.2.3 SWOT Analysis of Company B
  - 16.2.4 Company B Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)
- 16.3 COMPANY C
  - 16.3.1 Company Profile
  - 16.3.2 Main Business and Copper Foil Information



- 16.3.3 SWOT Analysis of Company C
- 16.3.4 Company C Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)

### 16.4 COMPANY D

- 16.4.1 Company Profile
- 16.4.2 Main Business and Copper Foil Information
- 16.4.3 SWOT Analysis of Company D
- 16.4.4 Company D Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)

#### 16.5 COMPANY E

- 16.5.1 Company Profile
- 16.5.2 Main Business and Copper Foil Information
- 16.5.3 SWOT Analysis of Company E
- 16.5.4 Company E Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)

### 16.6 COMPANY F

- 16.6.1 Company Profile
- 16.6.2 Main Business and Copper Foil Information
- 16.6.3 SWOT Analysis of Company F
- 16.6.4 Company F Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)

### 16.7 COMPANY G

- 16.7.1 Company Profile
- 16.7.2 Main Business and Copper Foil Information
- 16.7.3 SWOT Analysis of Company G
- 16.7.4 Company G Copper Foil Sales, Revenue, Price and Gross Margin (2014-2019)



### **Tables & Figures**

### **TABLES AND FIGURES**

Table Abbreviation and Acronyms List

Table Research Scope of Copper Foil Report

Table Primary Sources of Copper Foil Report

Table Secondary Sources of Copper Foil Report

Table Major Assumptions of Copper Foil Report

Figure Copper Foil Picture

Table Copper Foil Classification

Table Copper Foil Applications List

Table Drivers of Copper Foil Market

Table Restraints of Copper Foil Market

Table Opportunities of Copper Foil Market

Table Threats of Copper Foil Market

Table Raw Materials Suppliers List

Table Different Production Methods of Copper Foil

Table Cost Structure Analysis of Copper Foil

Table Key End Users List

Table Latest News of Copper Foil Market

Table Merger and Acquisition List

Table Planned/Future Project of Copper Foil Market

Table Policy of Copper Foil Market

Table 2014-2024 Regional Export of Copper Foil

Table 2014-2024 Regional Import of Copper Foil

Table 2014-2024 Regional Trade Balance

Figure 2014-2024 Regional Trade Balance

Table 2014-2024 North America Copper Foil Market Size (M USD) and Market Volume (Tons) List

Figure 2014-2024 North America Copper Foil Market Size (M USD) and CAGR

Figure 2014-2024 North America Copper Foil Market Volume (Tons) and CAGR

Table 2014-2024 North America Copper Foil Demand (Tons) List by Application

Table 2014-2019 North America Copper Foil Key Players Sales (Tons) List

Table 2014-2019 North America Copper Foil Key Players Market Share List

Table 2014-2024 North America Copper Foil Demand (Tons) List by Type

Table 2014-2019 North America Copper Foil Price (USD/Ton) List by Type

Table 2014-2024 US Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 US Copper Foil Import & Export (Tons) List



Table 2014-2024 Canada Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Canada Copper Foil Import & Export (Tons) List

Table 2014-2024 Mexico Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Mexico Copper Foil Import & Export (Tons) List

Table 2014-2024 South America Copper Foil Market Size (M USD) and Market Volume (Tons) List

Figure 2014-2024 South America Copper Foil Market Size (M USD) and CAGR

Figure 2014-2024 South America Copper Foil Market Volume (Tons) and CAGR

Table 2014-2024 South America Copper Foil Demand (Tons) List by Application

Table 2014-2019 South America Copper Foil Key Players Sales (Tons) List

Table 2014-2019 South America Copper Foil Key Players Market Share List

Table 2014-2024 South America Copper Foil Demand (Tons) List by Type

Table 2014-2019 South America Copper Foil Price (USD/Ton) List by Type

Table 2014-2024 Brazil Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Brazil Copper Foil Import & Export (Tons) List

Table 2014-2024 Argentina Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Argentina Copper Foil Import & Export (Tons) List

Table 2014-2024 Chile Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Chile Copper Foil Import & Export (Tons) List

Table 2014-2024 Peru Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Peru Copper Foil Import & Export (Tons) List

Table 2014-2024 Asia & Pacific Copper Foil Market Size (M USD) and Market Volume (Tons) List

Figure 2014-2024 Asia & Pacific Copper Foil Market Size (M USD) and CAGR

Figure 2014-2024 Asia & Pacific Copper Foil Market Volume (Tons) and CAGR

Table 2014-2024 Asia & Pacific Copper Foil Demand (Tons) List by Application

Table 2014-2019 Asia & Pacific Copper Foil Key Players Sales (Tons) List

Table 2014-2019 Asia & Pacific Copper Foil Key Players Market Share List

Table 2014-2024 Asia & Pacific Copper Foil Demand (Tons) List by Type

Table 2014-2019 Asia & Pacific Copper Foil Price (USD/Ton) List by Type

Table 2014-2024 China Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 China Copper Foil Import & Export (Tons) List



Table 2014-2024 India Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 India Copper Foil Import & Export (Tons) List

Table 2014-2024 Japan Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Japan Copper Foil Import & Export (Tons) List

Table 2014-2024 South Korea Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 South Korea Copper Foil Import & Export (Tons) List

Table 2014-2024 ASEAN Copper Foil Market Size (M USD) List

Table 2014-2024 ASEAN Copper Foil Market Volume (Tons) List

Table 2014-2024 ASEAN Copper Foil Import (Tons) List

Table 2014-2024 ASEAN Copper Foil Export (Tons) List

Table 2014-2024 Australia Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Australia Copper Foil Import & Export (Tons) List

Table 2014-2024 Europe Copper Foil Market Size (M USD) and Market Volume (Tons) List

Figure 2014-2024 Europe Copper Foil Market Size (M USD) and CAGR

Figure 2014-2024 Europe Copper Foil Market Volume (Tons) and CAGR

Table 2014-2024 Europe Copper Foil Demand (Tons) List by Application

Table 2014-2019 Europe Copper Foil Key Players Sales (Tons) List

Table 2014-2019 Europe Copper Foil Key Players Market Share List

Table 2014-2024 Europe Copper Foil Demand (Tons) List by Type

Table 2014-2019 Europe Copper Foil Price (USD/Ton) List by Type

Table 2014-2024 Germany Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Germany Copper Foil Import & Export (Tons) List

Table 2014-2024 France Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 France Copper Foil Import & Export (Tons) List

Table 2014-2024 UK Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 UK Copper Foil Import & Export (Tons) List

Table 2014-2024 Italy Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Italy Copper Foil Import & Export (Tons) List

Table 2014-2024 Spain Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Spain Copper Foil Import & Export (Tons) List

Table 2014-2024 Belgium Copper Foil Market Size (M USD) and Market Volume (Tons)



List

Table 2014-2024 Belgium Copper Foil Import & Export (Tons) List

Table 2014-2024 Netherlands Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Netherlands Copper Foil Import & Export (Tons) List

Table 2014-2024 Austria Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Austria Copper Foil Import & Export (Tons) List

Table 2014-2024 Poland Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Poland Copper Foil Import & Export (Tons) List

Table 2014-2024 Russia Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Russia Copper Foil Import & Export (Tons) List

Table 2014-2024 MEA Copper Foil Market Size (M USD) and Market Volume (Tons) List

Figure 2014-2024 MEA Copper Foil Market Size (M USD) and CAGR

Figure 2014-2024 MEA Copper Foil Market Volume (Tons) and CAGR

Table 2014-2024 MEA Copper Foil Demand (Tons) List by Application

Table 2014-2019 MEA Copper Foil Key Players Sales (Tons) List

Table 2014-2019 MEA Copper Foil Key Players Market Share List

Table 2014-2024 MEA Copper Foil Demand (Tons) List by Type

Table 2014-2019 MEA Copper Foil Price (USD/Ton) List by Type

Table 2014-2024 Egypt Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Egypt Copper Foil Import & Export (Tons) List

Table 2014-2024 Iran Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Iran Copper Foil Import & Export (Tons) List

Table 2014-2024 Israel Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 Israel Copper Foil Import & Export (Tons) List

Table 2014-2024 South Africa Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 South Africa Copper Foil Import & Export (Tons) List

Table 2014-2024 GCC Copper Foil Market Size (M USD) and Market Volume (Tons) List

Table 2014-2024 GCC Copper Foil Import & Export (Tons) List

Table 2014-2024 Turkey Copper Foil Market Size (M USD) and Market Volume (Tons) List



Table 2014-2024 Turkey Copper Foil Import & Export (Tons) List

Table 2014-2019 Global Copper Foil Market Size (M USD) List by Region

Table 2014-2019 Global Copper Foil Market Size Share List by Region

Table 2014-2019 Global Copper Foil Market Volume (Tons) List by Region

Table 2014-2019 Global Copper Foil Market Volume Share List by Region

Table 2014-2019 Global Copper Foil Demand (Tons) List by Application

Table 2014-2019 Global Copper Foil Demand Market Share List by Application

Table 2014-2019 Global Copper Foil Capacity (Tons) List

Table 2014-2019 Global Copper Foil Key Vendors Capacity Share List

Table 2014-2019 Global Copper Foil Key Vendors Production (Tons) List

Table 2014-2019 Global Copper Foil Key Vendors Production Share List

Figure 2014-2019 Global Copper Foil Capacity Production and Growth Rate

Table 2014-2019 Global Copper Foil Key Vendors Production Value (M USD) List

Figure 2014-2019 Global Copper Foil Production Value (M USD) and Growth Rate

Table 2014-2019 Global Copper Foil Key Vendors Production Value Share List

Table 2014-2019 Global Copper Foil Demand (Tons) List by Type

Table 2014-2019 Global Copper Foil Demand Market Share List by Type

Table 2014-2019 Regional Copper Foil Price (USD/Ton) List

Table 2019-2024 Global Copper Foil Market Size (M USD) List by Region

Table 2019-2024 Global Copper Foil Market Size Share List by Region

Table 2019-2024 Global Copper Foil Market Volume (Tons) List by Region

Table 2019-2024 Global Copper Foil Market Volume Share List by Region

Table 2019-2024 Global Copper Foil Demand (Tons) List by Application

Table 2019-2024 Global Copper Foil Demand Market Share List by Application

Table 2019-2024 Global Copper Foil Capacity (Tons) List

Table 2019-2024 Global Copper Foil Key Vendors Capacity Share List

Table 2019-2024 Global Copper Foil Key Vendors Production (Tons) List

Table 2019-2024 Global Copper Foil Key Vendors Production Share List

Figure 2019-2024 Global Copper Foil Capacity Production and Growth Rate

Table 2019-2024 Global Copper Foil Key Vendors Production Value (M USD) List

Figure 2019-2024 Global Copper Foil Production Value (M USD) and Growth Rate

Table 2019-2024 Global Copper Foil Key Vendors Production Value Share List

Table 2019-2024 Global Copper Foil Demand (Tons) List by Type

Table 2019-2024 Global Copper Foil Demand Market Share List by Type

Table 2019-2024 Regional Copper Foil Price (USD/Ton) List

Table Company A Information List

Table SWOT Analysis of Company A

Table 2014-2019 Company A Copper Foil Product Capacity Production (Tons) Price

Cost (USD/Ton) Production Value (M USD) List



Figure 2014-2019 Company A Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company A Copper Foil Market Share

Table Company B Information List

Table SWOT Analysis of Company B

Table 2014-2019 Company B Copper Foil Product Capacity Production (Tons) Price Cost (USD/Ton) Production Value (M USD) List

Figure 2014-2019 Company B Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company B Copper Foil Market Share

Table Company C Information List

Table SWOT Analysis of Company C

Table 2014-2019 Company C Copper Foil Product Capacity Production (Tons) Price Cost (USD/Ton) Production Value (M USD) List

Figure 2014-2019 Company C Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company C Copper Foil Market Share

Table Company D Information List

Table SWOT Analysis of Company D

Table 2014-2019 Company D Copper Foil Product Capacity Production (Tons) Price Cost (USD/Ton) Production Value (M USD) List

Figure 2014-2019 Company D Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company D Copper Foil Market Share

Table Company E Information List

Table SWOT Analysis of Company E

Table 2014-2019 Company E Copper Foil Product Capacity Production (Tons) Price Cost (USD/Ton) Production Value (M USD) List

Figure 2014-2019 Company E Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company E Copper Foil Market Share

Table Company F Information List

Table SWOT Analysis of Company F

Table 2014-2019 Company F Copper Foil Product Capacity Production (Tons) Price Cost (USD/Ton) Production Value (M USD) List

Figure 2014-2019 Company F Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company F Copper Foil Market Share

Table Company G Information List



Table SWOT Analysis of Company G

Table 2014-2019 Company G Copper Foil Product Capacity Production (Tons) Price Cost (USD/Ton) Production Value (M USD) List

Figure 2014-2019 Company G Copper Foil Capacity Production (Tons) and Growth Rate

Figure 2014-2019 Company G Copper Foil Market Share



### I would like to order

Product name: 2018 Global Copper Foil Industry Report - History, Present and Future

Product link: https://marketpublishers.com/r/24197EE53220EN.html

Price: US\$ 3,500.00 (Single User License / Electronic Delivery)

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

Service:

info@marketpublishers.com

### **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/24197EE53220EN.html">https://marketpublishers.com/r/24197EE53220EN.html</a>

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

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

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

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