

# Global Ceramic Composites Market Analysis 2016-2020 and Forecast 2021-2026

<https://marketpublishers.com/r/G5DECD2E087EN.html>

Date: March 2021

Pages: 105

Price: US\$ 2,980.00 (Single User License)

ID: G5DECD2E087EN

## Abstracts

### SNAPSHOT

The global Ceramic Composites market size is estimated at xxx million USD with a CAGR xx% from 2016-2020 and is expected to reach xxx Million USD in 2021 with a CAGR xx% from 2021 to 2026. The report begins from overview of Industry Chain structure, and describes industry environment, then analyses market size and forecast of Ceramic Composites by product, region and application, in addition, this report introduces market competition situation among the vendors and company profile, besides, market price analysis and value chain features are covered in this report.

Product Type Coverage (Market Size & Forecast, Major Company of Product Type etc.):

Oxide/Oxide

SiC/SiC

Carbon/Carbon

Others

Company Coverage (Company Profile, Sales Revenue, Price, Gross Margin, Main Products etc.):

Rolls-Royce PLC.

General Electric Company

COI Ceramics Inc.

SGL Group

United Technologies

Ceramtec

Lancer Systems

Coorstek Inc.

Applied Thin Films, Inc.

Ultramet

Composites Horizons

Starfire Systems Inc.

Graftech International Ltd. (Fiber Materials Inc.)

Pyromeral Systems

Application Coverage (Market Size & Forecast, Different Demand Market by Region, Main Consumer Profile etc.):

Aerospace & Defense

Automotive

Energy & Power

Electrical & Electronics

Others

Region Coverage (Regional Production, Demand & Forecast by Countries etc.):

North America (U.S., Canada, Mexico)

Europe (Germany, U.K., France, Italy, Russia, Spain etc.)

Asia-Pacific (China, India, Japan, Southeast Asia etc.)

South America (Brazil, Argentina etc.)

Middle East & Africa (Saudi Arabia, South Africa etc.)

## Contents

### 1 INDUSTRY OVERVIEW

#### 1.1 Ceramic Composites Industry

Figure Ceramic Composites Industry Chain Structure

##### 1.1.1 Overview

##### 1.1.2 Development of Ceramic Composites

#### 1.2 Market Segment

##### 1.2.1 Upstream

Table Upstream Segment of Ceramic Composites

##### 1.2.2 Downstream

Table Application Segment of Ceramic Composites

Table Global Ceramic Composites Market 2016-2026, by Application, in USD Million

##### 1.2.3 COVID-19 Impact

#### 1.3 Cost Analysis

### 2 INDUSTRY ENVIRONMENT (PEST ANALYSIS)

#### 2.1 Policy

#### 2.2 Economics

#### 2.3 Sociology

#### 2.4 Technology

### 3 CERAMIC COMPOSITES MARKET BY TYPE

#### 3.1 By Type

##### 3.1.1 Oxide/Oxide

Table Major Company List of Oxide/Oxide

##### 3.1.2 SiC/SiC

Table Major Company List of SiC/SiC

##### 3.1.3 Carbon/Carbon

Table Major Company List of Carbon/Carbon

##### 3.1.4 Others

Table Major Company List of Others

#### 3.2 Market Size

Table Global Ceramic Composites Market 2016-2020, by Type, in USD Million

Figure Global Ceramic Composites Market Growth 2016-2020, by Type, in USD Million

Table Global Ceramic Composites Market 2016-2020, by Type, in Volume

Figure Global Ceramic Composites Market Growth 2016-2020, by Type, in Volume

3.3 Market Forecast

Table Global Ceramic Composites Market Forecast 2021-2026, by Type, in USD Million

Table Global Ceramic Composites Market Forecast 2021-2026, by Type, in Volume

## **4 MAJOR COMPANIES LIST**

4.1 Rolls-Royce PLC. (Company Profile, Sales Data etc.)

4.1.1 Rolls-Royce PLC. Profile

Table Rolls-Royce PLC. Overview List

4.1.2 Rolls-Royce PLC. Products & Services

4.1.3 Rolls-Royce PLC. Business Operation Conditions

Table Business Operation of Rolls-Royce PLC. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.2 General Electric Company (Company Profile, Sales Data etc.)

4.2.1 General Electric Company Profile

Table General Electric Company Overview List

4.2.2 General Electric Company Products & Services

4.2.3 General Electric Company Business Operation Conditions

Table Business Operation of General Electric Company (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.3 COI Ceramics Inc. (Company Profile, Sales Data etc.)

4.3.1 COI Ceramics Inc. Profile

Table COI Ceramics Inc. Overview List

4.3.2 COI Ceramics Inc. Products & Services

4.3.3 COI Ceramics Inc. Business Operation Conditions

Table Business Operation of COI Ceramics Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.4 SGL Group (Company Profile, Sales Data etc.)

4.4.1 SGL Group Profile

Table SGL Group Overview List

4.4.2 SGL Group Products & Services

4.4.3 SGL Group Business Operation Conditions

Table Business Operation of SGL Group (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.5 United Technologies (Company Profile, Sales Data etc.)

4.5.1 United Technologies Profile

Table United Technologies Overview List

4.5.2 United Technologies Products & Services

#### 4.5.3 United Technologies Business Operation Conditions

Table Business Operation of United Technologies (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### 4.6 Ceramtec (Company Profile, Sales Data etc.)

##### 4.6.1 Ceramtec Profile

Table Ceramtec Overview List

##### 4.6.2 Ceramtec Products & Services

##### 4.6.3 Ceramtec Business Operation Conditions

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

#### 4.7 Lancer Systems (Company Profile, Sales Data etc.)

##### 4.7.1 Lancer Systems Profile

Table Lancer Systems Overview List

##### 4.7.2 Lancer Systems Products & Services

##### 4.7.3 Lancer Systems Business Operation Conditions

Table Business Operation of Lancer Systems (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### 4.8 Coorstek Inc. (Company Profile, Sales Data etc.)

##### 4.8.1 Coorstek Inc. Profile

Table Coorstek Inc. Overview List

##### 4.8.2 Coorstek Inc. Products & Services

##### 4.8.3 Coorstek Inc. Business Operation Conditions

Table Business Operation of Coorstek Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### 4.9 Applied Thin Films, Inc. (Company Profile, Sales Data etc.)

##### 4.9.1 Applied Thin Films, Inc. Profile

Table Applied Thin Films, Inc. Overview List

##### 4.9.2 Applied Thin Films, Inc. Products & Services

##### 4.9.3 Applied Thin Films, Inc. Business Operation Conditions

Table Business Operation of Applied Thin Films, Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### 4.10 Ultramet (Company Profile, Sales Data etc.)

##### 4.10.1 Ultramet Profile

Table Ultramet Overview List

##### 4.10.2 Ultramet Products & Services

##### 4.10.3 Ultramet Business Operation Conditions

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

#### 4.11 Composites Horizons (Company Profile, Sales Data etc.)

#### 4.11.1 Composites Horizons Profile

Table Composites Horizons Overview List

#### 4.11.2 Composites Horizons Products & Services

#### 4.11.3 Composites Horizons Business Operation Conditions

Table Business Operation of Composites Horizons (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### 4.12 Starfire Systems Inc. (Company Profile, Sales Data etc.)

#### 4.12.1 Starfire Systems Inc. Profile

Table Starfire Systems Inc. Overview List

#### 4.12.2 Starfire Systems Inc. Products & Services

#### 4.12.3 Starfire Systems Inc. Business Operation Conditions

Table Business Operation of Starfire Systems Inc. (Sales Revenue, Cost, Gross Margin)

#### 4.13 Graftech International Ltd. (Fiber Materials Inc.) (Company Profile, Sales Data etc.)

#### 4.13.1 Graftech International Ltd. (Fiber Materials Inc.) Profile

Table Graftech International Ltd. (Fiber Materials Inc.) Overview List

#### 4.13.2 Graftech International Ltd. (Fiber Materials Inc.) Products & Services

#### 4.13.3 Graftech International Ltd. (Fiber Materials Inc.) Business Operation Conditions

Table Business Operation of Graftech International Ltd. (Fiber Materials Inc.) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### 4.14 Pyromeral Systems (Company Profile, Sales Data etc.)

#### 4.14.1 Pyromeral Systems Profile

Table Pyromeral Systems Overview List

#### 4.14.2 Pyromeral Systems Products & Services

#### 4.14.3 Pyromeral Systems Business Operation Conditions

Table Business Operation of Pyromeral Systems (Sales Revenue, Cost, Gross Margin)

## 5 MARKET COMPETITION

### 5.1 Company Competition

Table Global Ceramic Composites Sales Revenue 2016-2020, by Company, in USD Million

Table Global Ceramic Composites Sales Revenue Share 2016-2020, by Company, in USD Million

Figure Global Ceramic Composites Sales Revenue Share in 2020, by Company, in USD Million

Table Global Ceramic Composites Sales Volume 2016-2020, by Company, in Volume

Table Global Ceramic Composites Sales Volume Share 2016-2020, by Company, in Volume

Figure Global Ceramic Composites Sales Volume Share in 2020, by Company, in Volume

## 5.2 Regional Market by Company

Figure North America Ceramic Composites Market Concentration, in 2020

Figure Europe Ceramic Composites Market Market Concentration, in 2020

Figure Asia-Pacific Ceramic Composites Market Concentration, in 2020

Figure South America Ceramic Composites Market Concentration, in 2020

Figure Middle East & Africa Ceramic Composites Market Concentration, in 2020

## 6 DEMAND BY END MARKET

### 6.1 Demand Situation

#### 6.1.1 Demand in Aerospace & Defense

Figure Ceramic Composites Demand in Aerospace & Defense, 2016-2020, in USD Million

Figure Ceramic Composites Demand in Aerospace & Defense, 2016-2020, in Volume

#### 6.1.2 Demand in Automotive

Figure Ceramic Composites Demand in Automotive, 2016-2020, in USD Million

Figure Ceramic Composites Demand in Automotive, 2016-2020, in Volume

#### 6.1.3 Demand in Energy & Power

Figure Ceramic Composites Demand in Energy & Power, 2016-2020, in USD Million

Figure Ceramic Composites Demand in Energy & Power, 2016-2020, in Volume

#### 6.1.4 Demand in Electrical & Electronics

Figure Ceramic Composites Demand in Electrical & Electronics, 2016-2020, in USD Million

Figure Ceramic Composites Demand in Electrical & Electronics, 2016-2020, in Volume

#### 6.1.5 Demand in Others

Figure Ceramic Composites Demand in Others, 2016-2020, in USD Million

Figure Ceramic Composites Demand in Others, 2016-2020, in Volume

### 6.2 Regional Demand Comparison

Table Regional Demand Comparison List

Table Major Application in Different Regions

### 6.3 Demand Forecast

Table Ceramic Composites Demand Forecast 2021-2026, by Application, in USD Million

Figure Ceramic Composites Market Growth 2021-2026, by Application, in USD Million

Figure Ceramic Composites Market Share in 2026, by Application, in USD Million

Table Ceramic Composites Demand Forecast 2021-2026, by Application, in Volume

Table Ceramic Composites Market Growth 2021-2026, by Application, in Volume

Table Ceramic Composites Market Share in 2026, by Application, in Volume



## 6.4 Impact of the COVID-19 on the Demand

# 7 REGION OPERATION

## 7.1 Regional Production

Table Ceramic Composites Production 2016-2020, by Region, in USD Million

Table Ceramic Composites Production 2016-2020, by Region, in Volume

## 7.2 Regional Market

Table Global Ceramic Composites Market 2016-2020, by Region, in USD Million

Table Global Ceramic Composites Market Share 2016-2020, by Region, in USD Million

Table Global Ceramic Composites Market 2016-2020, by Region, in Volume

Table Global Ceramic Composites Market Share 2016-2020, by Region, in Volume

## 7.3 by Region

### 7.3.1 North America

#### 7.3.1.1 Overview

Figure North America Ceramic Composites Market Size and Growth 2016-2020, in USD Million

Figure North America Ceramic Composites Market Size and Growth 2016-2020, in Volume

#### 7.3.1.2 by Country (U.S., Canada, Mexico)

Table North America Ceramic Composites Market Size 2016-2020, by Country, in USD Million

Table North America Ceramic Composites Market Size 2016-2020, by Country, in Volume

### 7.3.2 Europe

#### 7.3.2.1 Overview

Figure Europe Ceramic Composites Market Size and Growth 2016-2020, in USD Million

Figure Europe Ceramic Composites Market Size and Growth 2016-2020, in Volume

#### 7.3.2.2 by Country (Germany, U.K., France, Italy, Russia, Spain etc.)

Table Europe Ceramic Composites Market Size 2016-2020, by Country, in USD Million

Table Europe Ceramic Composites Market Size 2016-2020, by Country, in Volume

### 7.3.3 Asia-Pacific

#### 7.3.3.1 Overview

Figure Asia-Pacific Ceramic Composites Market Size and Growth 2016-2020, in USD Million

Figure Asia-Pacific Ceramic Composites Market Size and Growth 2016-2020, in Volume

#### 7.3.3.2 by Country (China, India, Japan, Southeast Asia etc.)

Table Asia-Pacific Ceramic Composites Market Size 2016-2020, by Country, in USD Million

Table Asia-Pacific Ceramic Composites Market Size 2016-2020, by Country, in Volume

7.3.4 South America

7.3.4.1 Overview

Figure South America Ceramic Composites Market Size and Growth 2016-2020, in USD Million

Figure South America Ceramic Composites Market Size and Growth 2016-2020, in Volume

7.3.4.2 by Country (Brazil, Argentina etc.)

Table South America Ceramic Composites Market Size 2016-2020, by Country, in USD Million

Table South America Ceramic Composites Market Size 2016-2020, by Country, in Volume

7.3.5 Middle East & Africa

7.3.5.1 Overview

Figure Middle East & Africa Ceramic Composites Market Size and Growth 2016-2020, in USD Million

Figure Middle East & Africa Ceramic Composites Market Size and Growth 2016-2020, in Volume

7.3.5.2 by Country (Saudi Arabia, South Africa etc.)

Table Middle East & Africa Ceramic Composites Market Size 2016-2020, by Country, in USD Million

Table Middle East & Africa Ceramic Composites Market Size 2016-2020, by Country, in Volume

7.4 Regional Import & Export

7.5 Regional Forecast

Table Ceramic Composites Market Forecast 2021-2026, by Region, in USD Million

Table Ceramic Composites Market Forecast 2021-2026, by Region, in Volume

## **8 MARKETING & PRICE**

8.1 Price and Margin

8.1.1 Price Trends

8.1.2 Factors of Price Change

Table Price Factors List

8.1.3 Manufacturers Gross Margin Analysis

8.2 Marketing Channel

Figure Marketing Channels Overview

## **9 RESEARCH CONCLUSION**

## List Of Tables

### LIST OF TABLES

1. Table Upstream Segment of Ceramic Composites
2. Table Application Segment of Ceramic Composites
3. Table Global Ceramic Composites Market 2016-2026, by Application, in USD Million
4. Table Major Company List of SiC/SiC
5. Table Major Company List of Carbon/Carbon
6. Table Major Company List of Others
7. Table Global Ceramic Composites Market 2016-2020, by Type, in USD Million
8. Table Global Ceramic Composites Market 2016-2020, by Type, in Volume
9. Table Global Ceramic Composites Market Forecast 2021-2026, by Type, in USD Million
10. Table Global Ceramic Composites Market Forecast 2021-2026, by Type, in Volume
11. Table Rolls-Royce PLC. Overview List
12. Table Business Operation of Rolls-Royce PLC. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
13. Table General Electric Company Overview List
14. Table Business Operation of General Electric Company (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
15. Table COI Ceramics Inc. Overview List
16. Table Business Operation of COI Ceramics Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
17. Table SGL Group Overview List
18. Table Business Operation of SGL Group (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
19. Table United Technologies Overview List
20. Table Business Operation of United Technologies (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
21. Table Ceramtec Overview List
22. Table Business Operation of Ceramtec (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
23. Table Lancer Systems Overview List
24. Table Business Operation of Lancer Systems (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
25. Table Coorstek Inc. Overview List
26. Table Business Operation of Coorstek Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
27. Table Applied Thin Films, Inc. Overview List

28. Table Business Operation of Applied Thin Films, Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
29. Table Ultramet Overview List
30. Table Business Operation of Ultramet (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
31. Table Composites Horizons Overview List
32. Table Business Operation of Composites Horizons (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
33. Table Starfire Systems Inc. Overview List
34. Table Business Operation of Starfire Systems Inc. (Sales Revenue, Cost, Gross Margin)
35. Table Graftech International Ltd. (Fiber Materials Inc.) Overview List
36. Table Business Operation of Graftech International Ltd. (Fiber Materials Inc.) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
37. Table Pyromeral Systems Overview List
38. Table Business Operation of Pyromeral Systems (Sales Revenue, Cost, Gross Margin)
39. Table Global Ceramic Composites Sales Revenue 2016-2020, by Company, in USD Million
40. Table Global Ceramic Composites Sales Revenue Share 2016-2020, by Company, in USD Million
41. Table Global Ceramic Composites Sales Volume 2016-2020, by Company, in Volume
42. Table Global Ceramic Composites Sales Volume Share 2016-2020, by Company, in Volume
43. Table Regional Demand Comparison List
44. Table Major Application in Different Regions
45. Table Ceramic Composites Demand Forecast 2021-2026, by Application, in USD Million
46. Table Ceramic Composites Demand Forecast 2021-2026, by Application, in Volume
47. Table Ceramic Composites Market Growth 2021-2026, by Application, in Volume
48. Table Ceramic Composites Market Share in 2026, by Application, in Volume
49. Table Ceramic Composites Production 2016-2020, by Region, in USD Million
50. Table Ceramic Composites Production 2016-2020, by Region, in Volume
51. Table Global Ceramic Composites Market 2016-2020, by Region, in USD Million
52. Table Global Ceramic Composites Market Share 2016-2020, by Region, in USD Million
53. Table Global Ceramic Composites Market 2016-2020, by Region, in Volume
54. Table Global Ceramic Composites Market Share 2016-2020, by Region, in Volume

55. Table North America Ceramic Composites Market Size 2016-2020, by Country, in USD Million
56. Table North America Ceramic Composites Market Size 2016-2020, by Country, in Volume
57. Table Europe Ceramic Composites Market Size 2016-2020, by Country, in USD Million
58. Table Europe Ceramic Composites Market Size 2016-2020, by Country, in Volume
59. Table Asia-Pacific Ceramic Composites Market Size 2016-2020, by Country, in USD Million
60. Table Asia-Pacific Ceramic Composites Market Size 2016-2020, by Country, in Volume
61. Table South America Ceramic Composites Market Size 2016-2020, by Country, in USD Million
62. Table South America Ceramic Composites Market Size 2016-2020, by Country, in Volume
63. Table Middle East & Africa Ceramic Composites Market Size 2016-2020, by Country, in USD Million
64. Table Middle East & Africa Ceramic Composites Market Size 2016-2020, by Country, in Volume
65. Table Ceramic Composites Market Forecast 2021-2026, by Region, in USD Million
66. Table Ceramic Composites Market Forecast 2021-2026, by Region, in Volume
67. Table Price Factors List

## List Of Figures

### LIST OF FIGURES

1. Figure Ceramic Composites Industry Chain Structure
2. Figure Global Ceramic Composites Market Growth 2016-2020, by Type, in USD Million
3. Figure Global Ceramic Composites Market Growth 2016-2020, by Type, in Volume
4. Figure Global Ceramic Composites Sales Revenue Share in 2020, by Company, in USD Million
5. Figure Global Ceramic Composites Sales Volume Share in 2020, by Company, in Volume
6. Figure North America Ceramic Composites Market Concentration, in 2020
7. Figure Europe Ceramic Composites Market Market Concentration, in 2020
8. Figure Asia-Pacific Ceramic Composites MMarket Concentration, in 2020
9. Figure South America Ceramic Composites Market Concentration, in 2020
10. Figure Middle East & Africa Ceramic Composites Market Concentration, in 2020
11. Figure Ceramic Composites Demand in Aerospace & Defense, 2016-2020, in USD Million
12. Figure Ceramic Composites Demand in Aerospace & Defense, 2016-2020, in Volume
13. Figure Ceramic Composites Demand in Automotive, 2016-2020, in USD Million
14. Figure Ceramic Composites Demand in Automotive, 2016-2020, in Volume
15. Figure Ceramic Composites Demand in Energy & Power, 2016-2020, in USD Million
16. Figure Ceramic Composites Demand in Energy & Power, 2016-2020, in Volume
17. Figure Ceramic Composites Demand in Electrical & Electronics, 2016-2020, in USD Million
18. Figure Ceramic Composites Demand in Electrical & Electronics, 2016-2020, in Volume
19. Figure Ceramic Composites Demand in Others, 2016-2020, in USD Million
20. Figure Ceramic Composites Demand in Others, 2016-2020, in Volume
21. Figure Ceramic Composites Market Growth 2021-2026, by Application, in USD Million
22. Figure Ceramic Composites Market Share in 2026, by Application, in USD Million
23. Figure North America Ceramic Composites Market Size and Growth 2016-2020, in USD Million
24. Figure North America Ceramic Composites Market Size and Growth 2016-2020, in Volume
25. Figure Europe Ceramic Composites Market Size and Growth 2016-2020, in USD Million

26. Figure Europe Ceramic Composites Market Size and Growth 2016-2020, in Volume
27. Figure Asia-Pacific Ceramic Composites Market Size and Growth 2016-2020, in USD Million
28. Figure Asia-Pacific Ceramic Composites Market Size and Growth 2016-2020, in Volume
29. Figure South America Ceramic Composites Market Size and Growth 2016-2020, in USD Million
30. Figure South America Ceramic Composites Market Size and Growth 2016-2020, in Volume
31. Figure Middle East & Africa Ceramic Composites Market Size and Growth 2016-2020, in USD Million
32. Figure Middle East & Africa Ceramic Composites Market Size and Growth 2016-2020, in Volume
33. Figure Marketing Channels Overview



## I would like to order

Product name: Global Ceramic Composites Market Analysis 2016-2020 and Forecast 2021-2026

Product link: <https://marketpublishers.com/r/G5DECD2E087EN.html>

Price: US\$ 2,980.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G5DECD2E087EN.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