

Semiconductor Gas Filters Market by Construction (In-line Filters, Gasket Filters) and Filter Element (Metallic Filter Element, Non-Metallic Filter Element) – Global Forecast to 2027

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Abstracts

Semiconductor Gas Filters Market by Construction (In-line Filters, Gasket Filters) and Filter Element (Metallic Filter Element, Non-Metallic Filter Element) - Global Forecast to 2027

The research report titled “Semiconductor Gas Filters Market by Construction (In-line Filters, Gasket Filters) and Filter Element (Metallic Filter Element, Non-Metallic Filter Element) - Global Forecast to 2027” provides in-depth analysis of semiconductor gas filters market in five major geographies and emphasizes on the current market trends, market size, market share, recent developments, and forecast till 2027. The Semiconductor Gas Filters (SGF) Market is expected to reach \$21.7 billion by 2027, growing at a CAGR of 5% during the forecast period of 2020 to 2027.

The growth of the semiconductor gas filters market is primarily driven by the factors such as rapid adoption of digital transformation technologies, significant growth in the demand for crystalline silicon wafer solar cells, and emergence of 5G. Furthermore, the growing demand for hardware used in AI applications is expected to offer growth opportunities for the players operating in this market.

The study offers a comprehensive analysis of the global semiconductor gas filters market with respect to construction type, filter elements, and geography. The global semiconductor gas filters market is segmented on the basis on construction (in-line filters, gasket filters) and filter element (metallic filter element, non-metallic filter element). The study also evaluates industry competitors and analyses the market at a

country level.

Based on construction, the in-line filters segment is estimated to account for the largest share of the overall semiconductor gas filters market in 2020. The large share of this segment is primarily accounted to the factors such as increasing adoption of LED coupled with favorable government initiatives, increasing demand for memory cards & storage devices, and increasing demand for in-line filters to protect critical semiconductor components from contamination. In addition, the growing developments among players for rising efficiency and improving performance of filters is encouraging the fastest growth of the semiconductor in-line gas filters market over the forecast period. These filters are mainly employed for high or ultra-high purity (UHP) systems and high-flow processes, such as diffusion, annealing, epitaxy tools, and connections, among others. These filters are primarily designed for use in high-pressure and high-temperature applications, particularly in the semiconductor sector, including flat panel displays, data storage, and LED manufacturing, among others.

Based on filter element, the metallic filter element segment is estimated to account for the largest share of the overall semiconductor gas filters market in 2020. The large share of this segment is mainly attributed to the growing consumption of metallic filters coupled with the growing need for high-performance filters and technological advancements. In addition, the growing need for higher purity process gases used in IC manufacture and high adoption rate owing to compact size and flexible choice of fittings is also expected to contribute to the fastest growth of this market over the forecast period.

Geographically, the SGF market is segmented into North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. The Asia Pacific region is estimated to account for the largest share of the global semiconductor gas filters market in 2020. The large share of this region is primarily attributed to the saturation of the semiconductor manufacturing industry coupled with the high consumption of semiconductor devices and the large electronics manufacturing sector in the region. Taiwan is estimated to account for the largest share of the Asia-Pacific semiconductor gas filters market in 2020. The large share of this market is mainly attributed to the factors such as favorable government policies, robust infrastructure, and skilled workforce; increasing investment for R&D to boost technological innovations and expand global presence; advancements in the development of gas filters; proliferation of semiconductor devices; and transfer of orders from the U.S.-China trade war.

The key players operating in the overall semiconductor gas filters market are Entegris,

Inc. (U.S.), Porvair Filtration Group (U.K.), Donaldson Company, Inc. (U.S.), Pall Corporation (U.S.), Ewald Associates, Inc. (U.S.), Mott Corporation (U.S.), Valin Corporation (U.S.), Nippon Seisen Co., Ltd. (Japan), Parker Hannifin Corporation (U.S.), WITT-Gasetechnik GmbH & Co KG (Germany), Mycropore Corporation (Taiwan), Teesing B.V. (Netherlands), and Bronkhorst High-Tech B.V. (Netherlands), among others.

Key questions answered in the report-

Which are the high growth market segments in terms of the construction, filter element, and countries?

What is the historical market for semiconductor gas filters across the globe?

What are the market forecasts and estimates from the period of 2020-2027?

What are the major drivers, restraints, opportunities, and trend in the global semiconductor gas filters market?

Who are the major players in the global semiconductor gas filters market and what share of the market do they hold?

Who are the major players in various countries and what share of the market do they hold?

How is the competitive landscape?

What are the recent developments in the global semiconductor gas filters market?

What are the different strategies adopted by the major players in the global semiconductor gas filters market?

What are the geographical trends and high growth countries?

Who are the local emerging players in the global semiconductor gas filters market and how do they compete with the other players?

Scope of the report:

Market by Construction

In-line Filter

Gasket Filter

Market by Filter Element

Metallic Filter Element

Stainless Steel (SS)

Nickel

Hastelloy

Other

Non-Metallic Filter Element

Polytetrafluoroethylene (PTFE)

Ceramic

Nylon

Other

Market by Geography:

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Russia

Rest of Europe

Asia-Pacific

South Korea

Taiwan

Japan

China

India

Australia & New Zealand

Southeast Asia

Rest of Asia-Pacific

Latin America

Mexico

Brazil

Argentina

Rest of Latin America

Middle East and Africa

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2 Market Ecosystem
- 1.3. Currency and Limitations
 - 1.3.1. Currency
 - 1.3.2. Limitations
- 1.4. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Approach
- 2.2. Data Collection & Validation
 - 2.2.1. Secondary Research
 - 2.2.2. Primary Research
- 2.3. Market Assessment
 - 2.3.1. Market Size Estimation
 - 2.3.2. Bottom-Up Approach
 - 2.3.3. Top-Down Approach
 - 2.3.4. Growth forecast
- 2.4. Assumptions for the Study

3. EXECUTIVE SUMMARY

- 3.1. Overview
- 3.2. Market Analysis, by Filter Element
- 3.3. Market Analysis, by Construction/Type
- 3.4. Market Analysis, by Geography
- 3.5. Competitive Analysis

4. MARKET INSIGHTS

- 4.1. Introduction
 - 4.1.1. Drivers
 - 4.1.1.1. Rapid Adoption of Digital Transformation Technologies
 - 4.1.1.2. Growing Demand for Crystalline Silicon Wafer Solar Cells
 - 4.1.1.3. Emergence of 5G Connectivity

- 4.1.2. Restraints
 - 4.1.2.1. Dynamic Nature of the Semiconductors Market
- 4.1.3. Opportunities
 - 4.1.3.1. Development of AI Hardware
 - 4.1.3.2. Increasing Investment in R&D Activities
- 4.1.4. Challenges
 - 4.1.4.1. Development of Advanced Filters at Relatively Low Cost
- 4.1.5. Trends
 - 4.1.5.1. Use of New Materials and Alloys as Filter Elements
- 4.2. Impact of Covid-19 on the Semiconductor Gas Filters Market
- 4.3. Supply Chain Analysis
- 4.4. Value Chain Analysis
 - 4.4.1. Pre-Competitive Stage
 - 4.4.1.1. Research & Development
 - 4.4.1.2. Design
 - 4.4.2. Competitive Stage
 - 4.4.2.1. Manufacturing
 - 4.4.2.2. Assembly
 - 4.4.2.3. Testing & Packaging
 - 4.4.2.4. Distribution & Logistics
- 4.5. Pricing Analysis
 - 4.5.1. Pricing Analysis, by Filter Element
 - 4.5.2. Pricing Analysis, by Construction/Type
 - 4.5.3. Pricing Analysis, by Region

5. SEMICONDUCTOR GAS FILTERS MARKET, BY CONSTRUCTION TYPE

- 5.1. Introduction
- 5.2. In-Line Filters
- 5.3. Gasket Filters

6. SEMICONDUCTOR GAS FILTERS MARKET, BY FILTER ELEMENT

- 6.1. Introduction
- 6.2. Metallic Filter Elements
 - 6.2.1. Stainless Steel (SS)
 - 6.2.2. Nickel
 - 6.2.3. Hastelloy
 - 6.2.4. Other Metallic Filters

6.3. Non-Metallic Filter Elements

6.3.1. Polytetrafluoroethylene (PTFE)

6.3.2. Ceramic

6.3.3. Nylon

6.3.4. Other Non-Metallic Filters

7. SEMICONDUCTOR GAS FILTERS MARKET, BY GEOGRAPHY

7.1. Introduction

7.2. Asia-Pacific

7.2.1. Taiwan

7.2.2. South Korea

7.2.3. Japan

7.2.4. China

7.2.5. India

7.2.6. Australia & New Zealand

7.2.7. Southeast Asia

7.2.8. Rest of Asia-Pacific (RoAPAC)

7.3. North America

7.3.1. U.S.

7.3.2. Canada

7.4. Europe

7.4.1. Germany

7.4.2. U.K.

7.4.3. France

7.4.4. Italy

7.4.5. Spain

7.4.6. Russia

7.4.7. Rest of Europe (RoE)

7.5. Latin America

7.5.1. Mexico

7.5.2. Brazil

7.5.3. Argentina

7.5.4. Rest of Latin America (RoLATAM)

7.6. Middle East & Africa

8. COMPETITIVE LANDSCAPE

8.1. Introduction

- 8.2. Key Growth Strategies
- 8.3. Market Share Analysis (2019)
 - 8.3.1. Entegris, Inc. (U.S.)
 - 8.3.2. Pall Corporation (U.S.)
 - 8.3.3. Parker Hannifin Corporation (U.S.)
 - 8.3.3. Other Players

9. COMPANY PROFILES (BUSINESS OVERVIEW, PRODUCT PORTFOLIO, FINANCIAL OVERVIEW, STRATEGIC DEVELOPMENTS)

- 9.1. Entegris, Inc.
- 9.2. Porvair Filtration Group (A Part Porvair Plc)
- 9.3. Donaldson Company, Inc.
- 9.4. Pall Corporation (a Part of Danaher Corporation)
- 9.5. Ewald Associates, Inc.
- 9.6. Mott Corporation
- 9.7. Valin Corporation
- 9.8. Nippon Seisen Co., Ltd.
- 9.9. Parker Hannifin Corporation
- 9.10. Witt-Gasetechnik GmbH & Co KG
- 9.11. Mycropore Corporation
- 9.12. Teesing B.V.
- 9.13. Bronkhorst High-Tech B.V.

10. APPENDIX

- 10.1. Questionnaire
- 10.2. Available Customization

List Of Tables

LIST OF TABLES

Table 1 Currency Conversion Rate into USD, 2016-2019

Table 2 Opportunities for Semiconductor Companies in the AI Market

Table 3 Impact Assessment of Covid-19 on the Semiconductor Gas Filters Market (\$Billion)

Table 4 Semiconductor Gas Filter Price Analysis: Average Selling Price Per Unit, by Filter Element, 2018 – 2027 (USD)

Table 5 Semiconductor Gas Filter Price Analysis: Average Selling Price Per Unit, by Construction/Type, 2018 - 2027 (USD)

Table 6 Semiconductor Gas Filter Price Analysis: Average Selling Price Per Unit, by Country, 2018 - 2027 (USD)

Table 7 Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 8 Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 9 In-Line Semiconductor Gas Filters Market Size, by Country/Region, 2018-2027 (\$Million)

Table 10 In-Line Semiconductor Gas Filters Market Size, by Country/Region, 2018-2027 (Million Units)

Table 11 Gasket Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 12 Gasket Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 13 Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 14 Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 15 Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 16 Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 17 Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 18 Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 19 Stainless-Steel Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 20 Stainless-Steel Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 21 Nickel Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 22 Nickel Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 23 Hastelloy Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 24 Hastelloy Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 25 Other Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 26 Other Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 27 Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 28 Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 29 Non-Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 30 Non-Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 31 PTFE Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 32 PTFE Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 33 Ceramic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 34 Ceramic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 35 Nylon Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 36 Nylon Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 37 Other Non-Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 38 Other Non-Metallic Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 39 Semiconductor Gas Filters Market, by Country, 2018-2027 (\$Million)

Table 40 Semiconductor Gas Filters Market, by Country, 2018-2027 (Million Units)

Table 41 Asia-Pacific: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 42 Asia-Pacific: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 43 Asia-Pacific: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 44 Asia-Pacific: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 45 Asia-Pacific: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 46 Asia-Pacific: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 47 Asia-Pacific: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 48 Asia-Pacific: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 49 Asia-Pacific: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 50 Asia-Pacific: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 51 Taiwan: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 52 Taiwan: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 53 Taiwan: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 54 Taiwan: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 55 Taiwan: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 56 Taiwan: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 57 Taiwan: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 58 Taiwan: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 59 South Korea: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 60 South Korea: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 61 South Korea: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 62 South Korea: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 63 South Korea: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 64 South Korea: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 65 South Korea: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 66 South Korea: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 67 Japan: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 68 Japan: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 69 Japan: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 70 Japan: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 71 Japan: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 72 Japan: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 73 Japan: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 74 Japan: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 75 China: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 76 China: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 77 China: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 78 China: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 79 China: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027

(\$Million)

Table 80 China: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 81 China: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 82 China: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 83 India: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 84 India: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 85 India: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 86 India: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 87 India: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 88 India: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 89 India: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 90 India: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 91 Australia & New Zealand: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 92 Australia & New Zealand: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 93 Australia & New Zealand: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 94 Australia & New Zealand: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 95 Australia & New Zealand: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 96 Australia & New Zealand: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 97 Australia & New Zealand: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 98 Australia & New Zealand: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 99 Southeast Asia: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 100 Southeast Asia: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 101 Southeast Asia: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 102 Southeast Asia: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 103 Southeast Asia: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 104 Southeast Asia: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 105 Southeast Asia: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 106 Southeast Asia: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 107 Rest of Asia-Pacific: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 108 Rest of Asia-Pacific: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 109 Rest of Asia-Pacific: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 110 Rest of Asia-Pacific: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 111 Rest of Asia-Pacific: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 112 Rest of Asia-Pacific: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 113 Rest of Asia-Pacific: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 114 Rest of Asia-Pacific: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 115 North America: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 116 North America: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 117 North America: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 118 North America: Semiconductor Gas Filters Market Size, by

Construction/Type, 2018-2027 (Million Units)

Table 119 North America: Semiconductor Gas Filters Size, by Filter Element, 2018-2027 (\$Million)

Table 120 North America: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 121 North America: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 122 North America: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 123 North America: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 124 North America: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 125 U.S.: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 126 U.S.: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 127 U.S.: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 128 U.S.: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 129 U.S.: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 130 U.S.: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 131 U.S.: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 132 U.S.: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 133 Canada: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 134 Canada: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 135 Canada: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 136 Canada: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 137 Canada: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

- Table 138 Canada: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)
- Table 139 Canada: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)
- Table 140 Canada: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)
- Table 141 Europe: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)
- Table 142 Europe: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)
- Table 143 Europe: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)
- Table 144 Europe: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)
- Table 145 Europe: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)
- Table 146 Europe: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)
- Table 147 Europe: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)
- Table 148 Europe: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)
- Table 149 Europe: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)
- Table 150 Europe: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)
- Table 151 Germany: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)
- Table 152 Germany: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)
- Table 153 Germany: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)
- Table 154 Germany: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)
- Table 155 Germany: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)
- Table 156 Germany: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)
- Table 157 Germany: Non-Metallic Semiconductor Gas Filters Market Size, by Type,

2018-2027 (\$Million)

Table 158 Germany: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 159 U.K.: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 160 U.K.: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 161 U.K.: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 162 U.K.: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 163 U.K.: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 164 U.K.: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 165 U.K.: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 166 U.K.: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 167 France: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 168 France: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 169 France: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 170 France: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 171 France: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 172 France: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 173 France: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 174 France: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 175 Italy: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 176 Italy: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 177 Italy: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 178 Italy: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 179 Italy: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 180 Italy: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 181 Italy: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 182 Italy: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 183 Spain: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 184 Spain: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 185 Spain: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 186 Spain: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 187 Spain: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 188 Spain: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 189 Spain: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 190 Spain: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 191 Russia: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 192 Russia: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 193 Russia: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 194 Russia: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 195 Russia: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 196 Russia: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027

(Million Units)

Table 197 Russia: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 198 Russia: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 199 Rest of Europe: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 200 Rest of Europe: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 201 Rest of Europe: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 202 Rest of Europe: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 203 Rest of Europe: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 204 Rest of Europe: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 205 Rest of Europe: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 206 Rest of Europe: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 207 Latin America: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (\$Million)

Table 208 Latin America: Semiconductor Gas Filters Market Size, by Country, 2018-2027 (Million Units)

Table 209 Latin America: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 210 Latin America: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 211 Latin America: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 212 Latin America: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 213 Latin America: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 214 Latin America: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 215 Latin America: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 216 Latin America: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 217 Mexico: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 218 Mexico: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 219 Mexico: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 220 Mexico: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 221 Mexico: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 222 Mexico: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 223 Mexico: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 224 Mexico: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 225 Brazil: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 226 Brazil: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 227 Brazil: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 228 Brazil: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 229 Brazil: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 230 Brazil: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 231 Brazil: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 232 Brazil: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 233 Argentina: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 234 Argentina: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 235 Argentina: Semiconductor Gas Filters Market Size, by Filter Element,

2018-2027 (\$Million)

Table 236 Argentina: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 237 Argentina: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 238 Argentina: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 239 Argentina: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 240 Argentina: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 241 Rest of Latin America: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 242 Rest of Latin America: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 243 Rest of Latin America: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 244 Rest of Latin America: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 245 Rest of Latin America: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 246 Rest of Latin America: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 247 Rest of Latin America: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 248 Rest of Latin America: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 249 Middle East & Africa: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (\$Million)

Table 250 Middle East & Africa: Semiconductor Gas Filters Market Size, by Construction/Type, 2018-2027 (Million Units)

Table 251 Middle East & Africa: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (\$Million)

Table 252 Middle East & Africa: Semiconductor Gas Filters Market Size, by Filter Element, 2018-2027 (Million Units)

Table 253 Middle East & Africa: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 254 Middle East & Africa: Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

Table 255 Middle East & Africa: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (\$Million)

Table 256 Middle East & Africa: Non-Metallic Semiconductor Gas Filters Market Size, by Type, 2018-2027 (Million Units)

List Of Figures

LIST OF FIGURES

Figure 1 Research Process

Figure 2 Primary Research Techniques

Figure 3 Key Executives Interviewed

Figure 4 Breakdown of Primary Interviews (Supply Side & Demand Side)

Figure 5 Market Sizing and Growth Forecast Approach

Figure 6 Key Insights

Figure 7 Semiconductor Gas Filters Market, by Filter Element, 2020 Vs. 2027 (\$Million)

Figure 8 Semiconductor Gas Filters Market, by Filter Element, 2020 Vs. 2027 (Million Units)

Figure 9 Hastelloy Filter Element is Expected to Grow at the Highest CAGR (by Value)

Figure 10 Hastelloy Filter Element is Expected to Grow at the Highest CAGR (by Volume)

Figure 11 PTFE Filter Element is Expected to Grow at the Highest CAGR (by Value)

Figure 12 PTFE Filter Element is Expected to Grow at the Highest CAGR (by Volume)

Figure 13 Semiconductor Gas Filters Market, by Construction/Type, 2020 Vs. 2027 (\$Million)

Figure 14 Semiconductor Gas Filters Market, by Construction/Type, 2020 Vs. 2027 (Million Units)

Figure 15 Geographic Snapshot: Semiconductor Gas Filters Market, by Value

Figure 16 Geographic Snapshot: Semiconductor Gas Filters Market, by Volume

Figure 17 Market Dynamics

Figure 18 Top Ten Global Solar PV Market: Total Installed Share, 2017

Figure 19 Market Development of the Semiconductors Industry (1988-2019)

Figure 20 Expectation of Allowable 20nm Particles/MI Chemical Per Year by the Semiconductor Industry

Figure 21 Impact Assessment of Covid-19 on the Semiconductor Gas Filters Market (Value Market Growth)

Figure 22 Impact Assessment of Covid-19 on the Semiconductor Gas Filters Market (Volume Market Growth)

Figure 23 Global Semiconductor Gas Filters Market Size, by Construction/Type, 2020-2027 (\$Million)

Figure 24 Global Semiconductor Gas Filters Market Size, by Construction/Type, 2020-2027 (Million Units)

Figure 25 Global Semiconductor Gas Filters Market Size, by Filter Element, 2020-2027 (\$Million)

Figure 26 Global Semiconductor Gas Filters Market Size, by Filter Element, 2020-2027
(Million Units)

Figure 27 Global Semiconductor Gas Filters Market Size, by Geography, 2020-2027
(\$Million)

Figure 28 Global Semiconductor Gas Filters Market Size, by Geography, 2020-2027
(Million Units)

Figure 29 Key Growth Strategies Adopted by Leading Players, 2017-2020

Figure 30 Market Share Analysis: Semiconductor Gas Filters Industry, 2019

Figure 31 Entegris, Inc.: Financial Overview (2017-2019)

Figure 32 Porvair Plc: Financial Overview (2017-2019)

Figure 33 Donaldson Company, Inc.: Financial Overview (2017-2019)

Figure 34 Danaher Corporation: Financial Overview (2017-2019)

Figure 35 Parkerhannifin Corporation: Financial Overview (2017-2019)

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