

South & Central America Semiconductor Silicon Wafer Market Forecast to 2031 - Regional Analysis- by Type (Up to 150 mm, Diameter 200mm, Diameter 300mm, and Diameter 450mm), Application (Consumer Electronics, Industrial, Telecommunications, Automotive, and Others), and Node Type (180 nm, 130 nm, 90 nm, 65 nm, 45 nm, 22 nm, 14 nm, 7 nm, 5 nm and Below, and Others)

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Abstracts

The South & Central America semiconductor silicon wafer market was valued at US\$ 248.66 million in 2023 and is expected to reach US\$ 276.77 million by 2031; it is estimated to register a CAGR of 1.3% from 2023 to 2031.

Increasing Demand for Electric Vehicles Fuels South & Central America Semiconductor Silicon Wafer Market

Electric vehicle (EV) sales are increasing owing to concerns related to environmental protection and government policies favoring low-emission or zero-emission vehicles adoption. Governments of various countries across the globe are offering subsidies and tax rebates to citizens to increase the adoption of EVs. According to IEA's annual Global Electric Vehicle Outlook 2024, in 2023, ~14 million electric cars were sold worldwide, which is 3.5 million higher than in 2022, recording 35% year-on-year increase and bringing their total number on the roads to 40 million. This shows that the electric cars' share in the overall car market has risen to 18% in 2023, up from 14% in 2022. In 2023, many well-known electric vehicle models became credit-eligible due to changes in the Clean Vehicle Tax Credit's eligibility requirements and reductions in the

cost of electric cars. For instance, sales of the Tesla Model Y surged by 50% in comparison to 2022, as it was qualified for the entire US\$ 7,500 tax credit.

Silicon wafers are used in the fabrication of the ICs, which are used in ADAS components, which fuels their demand among EV manufacturers. In addition, electric vehicles that incorporate silicon-based ICs can enable seamless connectivity with smartphones, voice commands, and entertainment alternatives during charging stops. Silicon-based integrated circuits are used in onboard energy management systems that intelligently distribute power from the battery to various vehicle components. By optimizing power utilization, these systems assist in extending the vehicle's range, minimizing the need for frequent charging, and addressing one of the key concerns of potential electric vehicle customers.

Electric vehicles use high-capacity lithium-ion batteries to store and transfer energy to the electric drivetrain. The battery management system (BMS) monitors and controls the performance as well as the health of the battery pack. Silicon wafers play an important role in the production of BMS-related integrated circuits. Advanced BMS ICs manufactured on silicon wafers can precisely measure battery parameters such as voltage, current, temperature, and state of charge. This critical data enables the BMS to optimize battery utilization, extend battery life, and ensure safe operation, thereby improving the electric vehicle's overall efficiency and reliability. Overall, the use of silicon wafers in EV components such as inverter systems, power converters, onboard chargers, and motor drives continues to grow. Thus, the increasing demand for EVs is expected to create an opportunity for the growth of the South & Central America semiconductor silicon wafer market during the forecasted period.

South & Central America Semiconductor Silicon Wafer Market Overview

Brazil is witnessing rapid technological adoption and improved designs in infrastructure, contributing to the growth of its consumer electronic industry. The growing investment in R&D by various tech giants, coupled with a rising trend of wearable electronic devices, is expected to offer lucrative opportunities for the growth of the consumer electronics industry in Brazil during the forecast period. Semiconductor silicon wafers are used in the manufacturing of integrated circuits for these wearable devices. As a result, various industry players are expanding their presence in the country to tap into the potential opportunities. In May 2021, LG Electronics announced the expansion of its production facilities in Brazil.

South & Central America Semiconductor Silicon Wafer Market Revenue and Forecast to

2031 (US\$ Million)

South & Central America Semiconductor Silicon Wafer Market Segmentation

The South & Central America semiconductor silicon wafer market is categorized into type, application, node type, and country.

By type, the South & Central America semiconductor silicon wafer market is segmented into Up to 150 mm, Diameter 200mm, Diameter 300mm, and Diameter 450mm. The Diameter 300mm segment held the largest share of the South & Central America semiconductor silicon wafer market share in 2023.

In terms of application, the South & Central America semiconductor silicon wafer market is segmented into consumer electronics, industrial, telecommunications, automotive, and others. The consumer electronics segment held the largest share of the South & Central America semiconductor silicon wafer market share in 2023.

Based on node type, the South & Central America semiconductor silicon wafer market is segmented into 180 nm, 130 nm, 90 nm, 65 nm, 45 nm, 22 nm, 14 nm, 7 nm, 5 nm and Below, and Others. The 7 nm segment held the largest share of the South & Central America semiconductor silicon wafer market share in 2023.

Based on country, the South & Central America semiconductor silicon wafer market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil segment held the largest share of South & Central America semiconductor silicon wafer market in 2023.

NANOHEMAZONE; Shin-Etsu Chemical Co Ltd; Sino-American Silicon Products Inc.; and Wafer Works Corp are some of the leading companies operating in the South & Central America semiconductor silicon wafer market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the South & Central America semiconductor silicon wafer market.

Highlights key business priorities to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the South & Central America semiconductor silicon wafer market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth South & Central America market trends and outlook coupled with the factors driving the South & Central America semiconductor silicon wafer market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - South & Central America Semiconductor Silicon Wafer Market

NANOCHEMAZONE

Shin-Etsu Chemical Co Ltd

Sino-American Silicon Products Inc.

Wafer Works Corp

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macro-economic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:

4. SOUTH & CENTRAL AMERICA SEMICONDUCTOR SILICON WAFER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis

5. SOUTH & CENTRAL AMERICA SEMICONDUCTOR SILICON WAFER MARKET – KEY MARKET DYNAMICS

- 5.1 South & Central America Semiconductor Silicon Wafer Market – Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Surge in Demand for Consumer Electronics
 - 5.2.2 Emergence of 5G
 - 5.2.3 Rise in Preference for Fabless Manufacturing
- 5.3 Market Restraints
 - 5.3.1 Manufacturing Complexity
- 5.4 Market Opportunities

5.4.1 Increasing Demand for Electric Vehicles

5.5 Future Trends

5.5.1 Increasing Miniaturization of Electronic Devices

5.6 Impact of Drivers and Restraints:

6. SEMICONDUCTOR SILICON WAFER MARKET – SOUTH & CENTRAL AMERICA MARKET ANALYSIS

6.1 South & Central America Semiconductor Silicon Wafer Market Revenue (US\$ Million), 2021–2031

6.2 South & Central America Semiconductor Silicon Wafer Market Forecast Analysis

7. SOUTH & CENTRAL AMERICA SEMICONDUCTOR SILICON WAFER MARKET ANALYSIS – BY TYPE

7.1 Upto 50 mm

7.1.1 Overview

7.1.2 Upto 50 mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

7.2 Diameter 200mm

7.2.1 Overview

7.2.2 Diameter 200mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

7.3 Diameter 300mm

7.3.1 Overview

7.3.2 Diameter 300mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

7.4 Diameter 450mm

7.4.1 Overview

7.4.2 Diameter 450mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

8. SOUTH & CENTRAL AMERICA SEMICONDUCTOR SILICON WAFER MARKET ANALYSIS – BY APPLICATION

8.1 Consumer Electronics

8.1.1 Overview

8.1.2 Consumer Electronics: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

8.2 Industrial

8.2.1 Overview

8.2.2 Industrial: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

8.3 Telecommunications

8.3.1 Overview

8.3.2 Telecommunications: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

8.4 Automotive

8.4.1 Overview

8.4.2 Automotive: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9. SOUTH & CENTRAL AMERICA SEMICONDUCTOR SILICON WAFER MARKET ANALYSIS – BY NODE TYPE

9.1 180 nm

9.1.1 Overview

9.1.2 180 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.2 130 nm

9.2.1 Overview

9.2.2 130 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.3 90 nm

9.3.1 Overview

9.3.2 90 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.4 65 nm

9.4.1 Overview

9.4.2 65 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.5 45 nm

9.5.1 Overview

9.5.2 45 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue

and Forecast to 2031 (US\$ Million)

9.6 22 nm

9.6.1 Overview

9.6.2 22 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.7 14 nm

9.7.1 Overview

9.7.2 14 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.8 7 nm

9.8.1 Overview

9.8.2 7 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.9 5 nm and Below

9.9.1 Overview

9.9.2 5 nm and Below: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

9.10 Others

9.10.1 Overview

9.10.2 Others: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

10. SOUTH & CENTRAL AMERICA SEMICONDUCTOR SILICON WAFER MARKET – COUNTRY ANALYSIS

10.1 South & Central America

10.1.1 South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast Analysis – by Country

10.1.1.1 South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast Analysis – by Country

10.1.1.2 Brazil: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.1.2.1 Brazil: Semiconductor Silicon Wafer Market Breakdown, by Type

10.1.1.2.2 Brazil: Semiconductor Silicon Wafer Market Breakdown, by Application

10.1.1.2.3 Brazil: Semiconductor Silicon Wafer Market Breakdown, by Node Type

10.1.1.3 Argentina: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.1.3.1 Argentina: Semiconductor Silicon Wafer Market Breakdown, by Type

10.1.1.3.2 Argentina: Semiconductor Silicon Wafer Market Breakdown, by

Application

10.1.1.3.3 Argentina: Semiconductor Silicon Wafer Market Breakdown, by Node Type

10.1.1.4 Rest of South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.1.4.1 Rest of South & Central America: Semiconductor Silicon Wafer Market Breakdown, by Type

10.1.1.4.2 Rest of South & Central America: Semiconductor Silicon Wafer Market Breakdown, by Application

10.1.1.4.3 Rest of South & Central America: Semiconductor Silicon Wafer Market Breakdown, by Node Type

11. COMPETITIVE LANDSCAPE

11.1 Company Positioning & Concentration

11.2 Heat Map Analysis by Key Players

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

12.3 New Product Development

12.4 Mergers & Acquisitions

13. COMPANY PROFILES

13.1 Wafer Works Corp

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

13.1.6 Key Developments

13.2 NANOCHEMAZONE

13.2.1 Key Facts

13.2.2 Business Description

13.2.3 Products and Services

13.2.4 Financial Overview

13.2.5 SWOT Analysis

13.2.6 Key Developments

13.3 Sino-American Silicon Products Inc.

13.3.1 Key Facts

13.3.2 Business Description

13.3.3 Products and Services

13.3.4 Financial Overview

13.3.5 SWOT Analysis

13.3.6 Key Developments

13.4 Shin-Etsu Chemical Co Ltd

13.4.1 Key Facts

13.4.2 Business Description

13.4.3 Products and Services

13.4.4 Financial Overview

13.4.5 SWOT Analysis

13.4.6 Key Developments

14. APPENDIX

14.1 Glossary

14.2 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. South & Central America Semiconductor Silicon Wafer Market Segmentation

Table 2. South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Table 3. South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million) – by Type

Table 4. South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million) – by Application

Table 5. South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million) – by Node Type

Table 6. South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Country

Table 7. Brazil: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Type

Table 8. Brazil: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Application

Table 9. Brazil: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Node Type

Table 10. Argentina: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Type

Table 11. Argentina: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Application

Table 12. Argentina: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million) – by Node Type

Table 13. Rest of South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million) – by Type

Table 14. Rest of South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million) – by Application

Table 15. Rest of South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million) – by Node Type

Table 16. Company Positioning & Concentration

List Of Figures

LIST OF FIGURES

Figure 1. South & Central America Semiconductor Silicon Wafer Market Segmentation, by Country

Figure 2. Ecosystem Analysis

Figure 3. Impact Analysis of Drivers and Restraints

Figure 4. South & Central America Semiconductor Silicon Wafer Market Revenue (US\$ Million), 2021–2031

Figure 5. South & Central America Semiconductor Silicon Wafer Market Share (%) – by Type (2023 and 2031)

Figure 6. Upto 50 mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 7. Diameter 200mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 8. Diameter 300mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 9. Diameter 450mm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 10. South & Central America Semiconductor Silicon Wafer Market Share (%) – by Application (2023 and 2031)

Figure 11. Consumer Electronics: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 12. Industrial: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 13. Telecommunications: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 14. Automotive: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 15. Others: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 16. South & Central America Semiconductor Silicon Wafer Market Share (%) – by Node Type (2023 and 2031)

Figure 17. 180 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 18. 130 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 19. 90 nm: South & Central America Semiconductor Silicon Wafer Market –

Revenue and Forecast to 2031 (US\$ Million)

Figure 20. 65 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 21. 45 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 22. 22 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 23. 14 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 24. 7 nm: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 25. 5 nm and Below: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 26. Others: South & Central America Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 27. South & Central America: Semiconductor Silicon Wafer Market by Key Countries – Revenue (2023) US\$ Million

Figure 28. South & Central America: Semiconductor Silicon Wafer Market Breakdown, by Key Countries, 2023 and 2031 (%)

Figure 29. Brazil: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million)

Figure 30. Argentina: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million)

Figure 31. Rest of South & Central America: Semiconductor Silicon Wafer Market – Revenue and Forecast to 2031(US\$ Million)

Figure 32. Heat Map Analysis by Key Players

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