Opportunities in Silicon Metal Manufacturing. Best Industry for Starting a Business.



Introduction

Silicon Metal is known as a semi-metallic or metalloid, having several of the characteristics of metals. It is the second most abundant element in the Earth's crust after oxygen, naturally occurring in various forms of silicon dioxide or silicates and very rarely in its pure form in volcanic exhalations. Silicon metal is a hard, brittle, and blue-grey lustrous semi-conductive metal, which is used to manufacture solar cells, steel, and microchips, along with various other commodities. Due to the properties such as high corrosion resistivity, machinability, and high thermal conductivity; silicon metal is widely used to manufacture aluminum alloys, silicones, semiconductors, and solar panels.



Silicon metal is derived from quartz (silicon dioxide). It is purified elemental silicon alloyed with significant quantities of other elements such as aluminum and calcium.







Silicon metals find application in silicones and silanes, solar panels, aluminum alloys, laboratory reagents, and stainless steel, among others. The use of silicon metal in aluminum alloys is the highest. The demand for silicon metals to be used in silanes/silicones has also been significant over the years. This can be attributed to the application of silicones in the manufacturing of various chemicals and materials used in personal care products, building and construction, electronics, plastics, and textiles.





The favorable properties of silicon, such as low processing and extraction costs, reduced temperature susceptibility, easy doping, and low current leakage, make it the most preferred metal for the production of semiconductors.





A major market driver is the continuous growing demand for silicon metal for the production of aluminum alloys, which are used in the foundry, automotive, and aerospace industries. When used with aluminum, silicon improves hardness, strength, and castability, and, hence, are used significantly in the production of aluminum alloys. Further, they are used to manufacture silicon compounds and silicon wafers, which are used to manufacture semiconductors and photovoltaic cells.





Global Silicon Metal Market Volume Share, By

Application, 2015

xx.xx Semiconductors	
xx.xx Others	
xx.xx Solar Panels	
	xx.xx Silicones/Silanes
	Aluminum Alloys 44.70%
	2016 – 24 CAGR 4.3% (Volume)



The global silicon metal market is predicted to fuel owing to the rising economic development of numerous developing economies. The global silicon metal market is predicted to touch US\$3.4 bn by end of 2024, rising at a CAGR of 5.20% between 2016 and 2024. The increasing demand for solar panels is predicted to provide impetus to the development of this market. In addition, the rising application of aluminum alloys within the segment of transportation will also bode well for the development of the market.



The increasing innovation within production process of solar grade silicon will raise the proliferation of solar modules and reduce costs. This has emerged as a key opportunity in the development of the global silicon metal market.





In addition, silicon metals are also being employed in silicones/silanes. This is owing to the increasing application of silicones for the manufacturing of numerous materials and chemicals utilized in textiles, plastics, electronics, building, and personal care products. On the other hand, the utilization of silicon metal within semiconductors is poised to rise at the most swiftest growth rate over the forecast period. Factors such as the low current leakage, reduced temperature, susceptibility, and low extraction and processing costs of silicon are raising their employment in semiconductors.

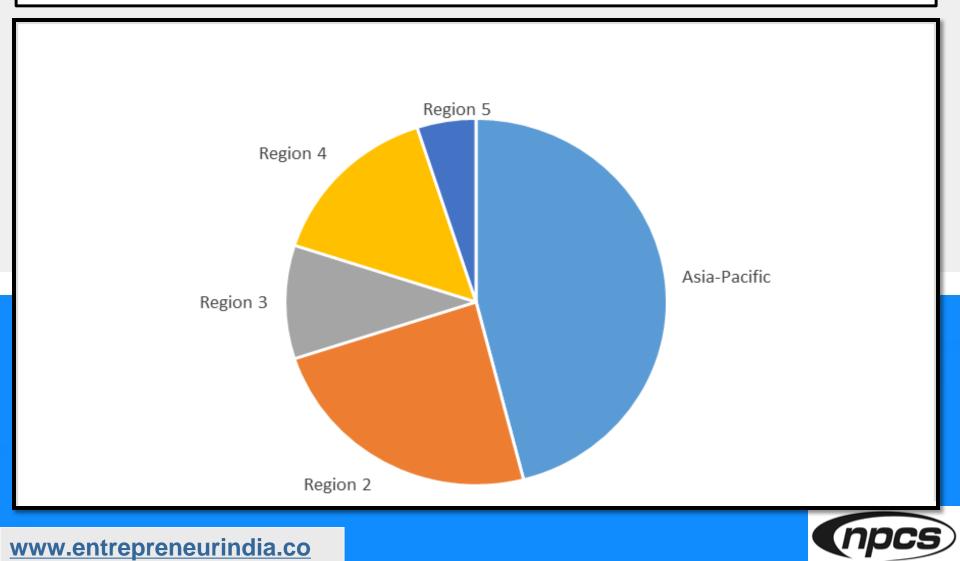


Silicon metal is purified elemental silicon alloyed with significant quantitates of other elements including aluminum and calcium. It is derived through thermal reduction of quartz (silicon dioxide) in an electric arc furnace with carbon electrodes. Silicon metal is majorly used in the production of aluminum alloys. Rising demand for aluminum alloys in transportation is likely to boost the market for silicon metal during the forecast period. Threat from supply dynamics of raw material and high production cost are expected to hamper market growth during the forecast period.



Global Silicon Metal Market: Revenue Share (%),

2017



With the increased usage of aluminum in structural engineering, aircraft manufacturing, and the automotive industry, there has been augmented demand for silicon metal to manufacture aluminum alloys that are lighter and resistant to corrosion. Silicon was found to increase an alloy's wear resistance, which has made aluminum-silicon alloy castings attractive substitutes for gray iron in automotive applications.





Moreover, silicon with its low cost and ease of extraction has become a good option for casting alloy for aluminum. Hence, with the growing emphasis on lightweight and stronger components across various industries, the ability of aluminumsilicon alloys to provide these characteristics at affordable prices is expected to drive the demand for the silicon market over the forecast period.





PROJECT AT A GLANCE						The	(USD in ousands)				
COST O	F PROJEC	СТ		MEANS	MEANS OF FINANCE						
Particulars	Fxisting	Proposed	Total	Particulars	Existing	Propose d	Total				
Land & Site Development	LAISting	Tropeded	IVtui		LAISting	4	Iotai				
Exp.	0.00	180.00	180.0C	Capital	0.00	955.76	955.76				
Buildings	0.00			Share Premium	0.00						
				Other Type Share							
Plant & Machineries	0.00	1965.00			0.00	0.00	0.00				
Motor Vehicles	0.00	20.00	20.00	Reserves & Surplus	0.00	0.00	0.00				
Office Automation											
Equipments	0.00	585.00	585.00	Cash Subsidy	0.00	0.00	0.00				
Technical Knowhow Fees											
& Exp.	0.00	85.00		Internal Cash Accruals	0.00	0.00	0.00				
Franchise & Other Deposits	0.00	0.00		Long/Medium Term)Borrowings	0.00	2867.29	2867.29				
Preliminary& Pre-operative		0.00	0.00	Donominge	0.00	2001.20	2001.20				
Exp	0.00	20.00	20.00	Debentures / Bonds	0.00	0.00	0.00				
Provision for				Unsecured							
Contingencies	0.00	190.00	190.00	Loans/Deposits	0.00	0.00	0.00				
Margin Money - Working											
Capital	0.00				/						
TOTAL	0.00	3823.06	3823.06	TOTAL	0.00	3823.06	3823.06				



Yea r	Annua			Retained Earnings		Payo ut	Probab le Market Price	P/E Ratio	Yield Price/ Book Value		
					Per					No.of	
	EPS	CEPS			Share	Per S				Times	
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-			321.4	2400.0			311.4				
2	311.47	760.68	7	0	0.00	100.00	7	0.00	311.47	1.00	0.00
		1133.0	1067.	1800.0			745.5				
2-3	745.56	1	03	0	0.00	100.00	6	0.00	745.56	1.00	0.00
	1170.5	1505.1	2237.	1200.0			1170.		1170.5		
3-4	1	4	55	0	0.00	100.00	51	0.00	1	1.00	0.00
	1579.9	1869.3	3817.				1579.		1579.9		
4-5	5	6	49	600.00	0.00	100.00	95	0.00	5	1.00	0.00
	1970.4	2221.1	5787.				1970.		1970.4		
5-6	8	6	97	0.00	0.00	100.00	48	0.00	8	1.00	0.00



Yea r	D. S. C. R.			-	y as-	Total Net Worth	n on		Profit	tability	Ratio		Asset s Turno ver Ratio	nt
		Cumul ative	Over all					GPM	PBT	PAT	Net Contri bution	P/V Ratio		
	(Numt	per of ti	mes)	(Num) time		%	%	%	%	%		%		
Initi al			,	3.00	3.00									
1- 2	1.17	1.17		1.83	1.83	2.57		11.25 %	3.71%		7167.2 5	76.57 %	2.13	1.01
2-3	1.62	1.39		0.88	0.88	1.42		15.88 %			8336.9 4	76.35 %	2.33	1.32
3-4	2.15	1.62	2.14	0.37	0.37	0.76		19.12 %	13.85%	8.96%	9527.3 4	76.34 %	2.33	1.79
4-5	2.77	1.87		0.12	0.12	0.41		21.41 %	16.89%		10717. 74	76.34 %	2.18	2.38
5-6	3.51	2.14		0.00	0.00	0.22		23.03 %	19.08%		11908. 14	76.33 %	1.98	4.29



BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	72.96%
Total BEP (% of Installed Capacity)	74.97%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	28.50%
Payback Period of the Project is (In	2 Years 4
Years)	Months
Fixed Assets Coverage Ratio (No. of	
times)	8.556



Major Queries/Questions Answered in the Report?

- 1. What is Silicon Metal Manufacturing industry?
- 2. How has the Silicon Metal Manufacturing industry performed so far and how will it perform in the coming years ?
- 3. What is the Project Feasibility of Silicon Metal Manufacturing Plant ?
- 4. What are the requirements of Working Capital for setting up Silicon Metal Manufacturing plant ?



5. What is the structure of the Silicon Metal Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Silicon Metal Manufacturing Business?
- 7. What are the operating costs for setting up Silicon Metal Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up Silicon Metal Manufacturing plant ?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Silicon Metal Manufacturing plant ?

- 10. What are the requirements of raw material for setting up Silicon Metal Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Silicon Metal Manufacturing Business?
- 12. What is the Manufacturing Process of Silicon Metal ?



13. What is the total size of land required for setting up Silicon Metal Manufacturing plant ?

14. What will be the income and expenditures for Silicon Metal Manufacturing Business?

15. What are the Projected Balance Sheets of Silicon Metal Manufacturing plant ?

16. What are the requirement of utilities and overheads for setting up Silicon Metal Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Silicon Metal Manufacturing Business?



18. What are the Personnel (Manpower) Requirements for setting up Silicon Metal Manufacturing Business?

- **19.** What are Statistics of Import & Export for Silicon Metal ?
- 20. What is the time required to break-even of Silicon Metal Manufacturing Business?
- 21.What is the Break-Even Analysis of Silicon Metal Manufacturing plant?
- 22.What are the Project financials of Silicon Metal Manufacturing Business?



23. What are the Profitability Ratios of Silicon Metal Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Silicon Metal Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Silicon Metal Manufacturing plant?

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- This report helps you market and place the product correctly by

identifying the target customer group of the product



• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials

- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions





- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
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Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Silicon Metal provides an insight into Silicon Metal market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Silicon Metal project. The report assesses the market sizing and growth of the Indian Silicon Metal Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Silicon Metal sector in India along with its business prospects. Through this report we have identified Silicon Metal project as a lucrative investment avenue.



Tags

Silicon Metal Manufacturing, How Silicon is made? Silicon Metal, Silicon Production, Production of Silicon Metal, Silicon Metal Production Process, How is Silicon Produced? What is Silicon Metal Used for? How is Silicon Manufactured? Silicon Metal Uses, Making of Silicon Metal, Process for Production of Silicon Metal, Silicon Metal Manufacturing Plant, Manufacture of Silicon Metal, Silicon Metal Manufacture in India, Silicon Metal Production Plant, Silicon Metal Manufacturing Industry, Silicon Metal Manufacture, Silicon Metal Manufacturing Business, Metal Processing Industry, Silicon Manufacturing Unit, How to Start Silicon Metal Manufacturing Unit, Silicon Metal Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Silicon Metal Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries,



How to Silicon Metal Manufacturing Industry in India, Silicon Metal Manufacturing Projects, New project profile on Silicon Metal Manufacturing industries, Project Report on Silicon Metal Manufacturing Industry, Detailed Project Report on Silicon Metal Manufacturing, Project Report on Silicon Metal Manufacturing, Pre-Investment Feasibility Study on Silicon Metal Manufacturing, Techno-Economic feasibility study on Silicon Metal Manufacturing, Feasibility report on Silicon Metal Manufacturing, Free Project Profile on Silicon Metal Manufacturing, Project profile on Silicon Metal Manufacturing, Download free project profile on Silicon Metal Manufacturing, Startup Project for Silicon Metal Manufacturing, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Opportunities in Silicon Metal Manufacturing. Best Industry for Starting a Business.

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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects......<u>Read more</u>



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- We use authentic & reliable sources to ensure business precision





Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



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