



Industry
for Entrepreneurs,
Startups.

in Steel Abrasives



Introduction

<u>Steel</u> shot refers to spherical grains made of molten steel through an atomization (granulation) process, available in different sizes and hardnesses.

Steel grit characterizes grains with a predominantly angular shape. These grains are obtained by crushing steel shot, therefore they exhibit sharp edges and broken sections. Harder than <u>steel</u> shot, it is also available in different sizes and hardnesses.





Steel shot or grit is usually available at different hardness levels, ranging between 40 and 65 on the Rockwell scale (400 to 850 on the Vickers hardness scale).

Steel grit is most frequently used in a process called abrasive blasting, in which a substance is projected at high velocities towards a base material in order to remove material from the base material or to prepare the surface for further work. This is often done to remove any unwanted contaminants or oxide layers prior to coating a base material to improve the coating's adhesion.





Steel grit is an abrasive material that is used to abrade surfaces in a process known as abrasive blasting. Steel grit is jagged in shape, which allows it to abrade materials extremely well. Steel grit comes in many different chemical forms and sizes and is made by crushing steel shot.

Steel shot and grit are used in surface preparation process for cleaning metal surfaces which are covered with mill scale, dirt, rust, or paint coatings and for physically modifying the metal surface such as creating roughness for better application of paint and coating.





Industrial Uses:-

Steel shot and grit address numerous sectors since cleaning, surface preparation or shot peening applications are used by many industries as a part of their <u>construction</u>, renovation or repair processes. The main industrial sectors employing steel abrasives are:-

- Automotive industry
- Construction
- Metallurgy
- Petrochemical industry





Industrial Applications:-

Cleaning: - Steel shot and grit are used in cleaning applications for removal of loose material on <u>metal</u> surfaces. This type of cleaning is common in automotive industry (motor blocks, cylinder heads, etc.).

Surface Preparation: - Surface preparation is a series of operations including cleaning and physical modification of a surface. Steel shot and grit are used in surface preparation process for cleaning metal surfaces which are covered with mill scale, dirt, rust, or <u>paint</u> coatings and for physically modifying the metal surface such as creating roughness for better application of <u>paint</u> and coating. The steel shots are generally employed in shot blasting machines.





Stone Cutting: - Steel grit is used in cutting hard stones, such as granite. The grit is used in large multi-blade frames which cut the blocks of granite into thin slices.

Shot Peening: - Shot peening is the repeated striking of a metal surface by hard shot particles. These multiple impacts produce a deformation on the metal surface but also improve the durability of the metal part. The media used in this application is spherical rather than angular. The reason is that spherical shots are more resistant to the fracture which happens due to the striking impact.

Other Applications:-

- ➤ <u>Water</u> Jet Cutting
- ➤ Abrasive Blasting
- ➤ Water Filtration
- ➤ Abrasive Powders



Market Outlook

Steel abrasives can be defined as particles of steel with high carbon content, which are used across various industries for grinding, cleaning the hard surface, abrading, scouring, polishing, and to remove solid materials by the action of rubbing. Steel <u>abrasives</u> help to provide shape and surface finish to the material. Steel abrasives are used in construction, automotive, electronics, and manufacturing industries to prepare a superior polished surface finish. Some of the key industrial applications of the abrasives material market are de-flashing, peening, blast cleaning, paint stripping, and de-burring. Steel abrasives have high carbon steel composition for more durability and hardness.





The important advantage of using <u>steel</u> abrasives is their high recyclability, which helps to reduce waste when compared to other abrasives such as <u>glass</u> powder, iron abrasives, ceramic, boron carbide, silicon carbide etc. Steel abrasives are classified as high carbon abrasives and low carbon abrasives. Their cleaning performance is comparable, but there are some differences in their characteristics. Low carbon steel abrasives offer longer durability compared to high carbon steel abrasives due to their tendency not to crack and their relative softness.





The steel abrasives market has been segmented into steel shots and steel grit. The differentiating factor between steel grit and shot is their shape. Steel grits are angular shape crushed steel shots and steel shots are spheroidal grains of molten steel produced through the automation process in requisite sizes. In terms of application, the market has been segmented into construction, automotive & transportation, equipment goods, and others including energy, machine and tools, etc. The steel abrasives market has been divided into North America, Europe, Asia Pacific, Middle East & Africa, and South America based on region.





The global Steel Grit market size was million US\$ in 2019 and is expected to million US\$ by the end of 2026, growing at a CAGR of between 2020 and 2026. The Steel Grit market growth is predicted at a rapid rate in the coming years, all the major regions across the globe such as North America, Europe, South America, the Middle East, and Africa and the Asia Pacific. Europe and North America regions are anticipated to show an upward growth in the years to come. While Steel Grit market in Asia Pacific regions is likely to show remarkable growth. Cutting edge technology and innovations are the most important traits of the North America region and that's the reason most of the time the US dominates the global markets. Steel Grit Market in South, America region is also expected to grow in near future.



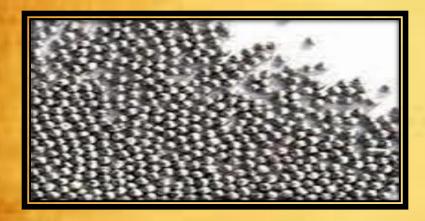


Key Players:-

- Marco Group International
- > Abrasives Inc.
- Vulkan INOX GmbH
- ➤ Metaltec Steel Abrasive
- > BLASTRAC
- ➤ Abrasive Shot
- ➤ Airblast Abrasives
- ➤ W Abrasives,
- > Airblast,
- ➤ 3M India Ltd.,



- Grindwell Norton Ltd.
- Hi-Tech Recycling (India) Pvt. Ltd.
- Orient Steel & Inds. Ltd
- Rotocast Industries Ltd.
- Silcal Metallurgic Ltd.
- Vinayak Steels Ltd.





Machinery Photographs



High Pressure Water Pump



Cooling Tower









Stainless-Steel N2itrogen Gas
Atomization Metal Powder



Project a	t a (Hand	ce						
COST O	F PROJE	CT		MEANS OF FINANCE					
	Existin	Propose			Existin	Propose			
Particulars	g	d	Total	Particulars	g	d	Total		
Land & Site									
Development Exp.	0.00	150.00	150.00	Capital	0.00	944.94	944.94		
Buildings	0.00	302.00	302.00	Share Premium	0.00	0.00	0.00		
			1643.1	Other Type Share					
Plant & Machineries	0.00	1643.16	6	6 Capital	0.00	0.00	0.00		
Motor Vehicles	0.00	25.00	25.00	Reserves & Surplus	0.00	0.00	0.00		
Office Automation									
Equipments	0.00	957.00	957.00	Cash Subsidy	0.00	0.00	0.00		
Technical Knowhow				Internal Cash					
Fees & Exp.	0.00	200.00	200.00	Accruals	0.00	0.00	0.00		

Long/Medium Term

0.00 Borrowings

10.00 Bonds

161.00 161.00 Loans / Deposits

5 TOTAL

Debentures /

Unsecured

2834.8 2834.8

3779.7 3779.7

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Franchise & Other

Preliminary& Pre-

operative Exp

Contingencies

Margin Money -Working Capital

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Provision for

Deposits

TOTAL

0.00

0.00

0.00

0.00

0.00 3779.75

0.00

10.00

331.59 331.59

3779.7

Project at a Glance

Year	Annu	alised	Book Value	Debt	Dividen d	Retained Earnings		Payou t	Probabl e Market Price	P/E Ratio	Yield Price/ Book Value
	EPS CEPS		Per Share		Per Share Per S		Share			No.of Times	
	EF S	CEFS	,	Silai C	Silait	%	``	%		Times	%
1-						100.0		70			70
2	4.39	8.83	14.39	24.00	0.00	0	4.39	0.00	4.39	1.00	0.00
						100.0					
2-3	8.01	11.88	22.40	18.00	0.00	0	8.01	0.00	8.01	1.00	0.00
						100.0					
3-4	11.63	15.01	34.03	12.00	0.00	0	11.63	0.00	11.63	1.00	0.00
						100.0					
4-5	15.20	18.16	49.24	6.00	0.00	0	15.20	0.00	15.20	1.00	0.00
						100.0					
5-6	18.71	21.31	67.95	0.00	0.00	0	18.71	0.00	18.71	1.00	0.00



Project at a Glance

Year	D). S. C. R	•	- '	Equity as- Equity	Net	n on	Profitability Ratio			Assets Turnov er Ratio	nt		
	Individ ual	Cumula tive	Overa 11					GPM	PBT	PAT	Net Contri bution			
	(Num	aber of ti	mes)	`	ber of nes)	%	%	%	%	%		%		
Initi al				3.00	3.00									
1- 2	1.30	1.30		1.67	1.67	2.42		10.99 %	5.84%	4.39%	5130. 24	54.29 %	2.11	1.02
2-3	1.68	1.49		0.80	0.80	1.36		14.30 %	10.29%	6.86%		54.11 %	2.28	1.34
3-4	2.14	1.69	2.15	0.35	0.35	0.77		16.66 %	13.52%	8.72%	6817. 36	54.11 %	2.27	1.76
4-5	2.70	1.91		0.12	0.12	0.44		18.38 %	15.93%		7669. 12	54.10 %	2.15	2.26
								19.65		11.23	8520.	54.10		

17.74%

88

%

0.00 0.26

0.00



1.98

3.81

2.15

5-6 3.37

Project at a Glance

	1000
BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	64.29%
Total BEP (% of Installed Capacity)	67.17%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	29.07%

Payback Period of the Project is (In Years)

Fixed Assets Coverage Ratio (No. of times)



2 Years 3

Months

8.603

Major Queries/Questions Answered in the Report?

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



- 5. What is the structure of the Steel Shots & Grits Manufacturing Business and who are the key/major players?
- 6. What is the total project cost for setting up Steel Shots & Grits Manufacturing Business?
- 7. What are the operating costs for setting up Steel Shots & Grits Manufacturing plant?
- 8. What are the machinery and equipment requirements for setting up Steel Shots & Grits Manufacturing plant?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Steel Shots & Grits Manufacturing plant?
- 10. What are the requirements of raw material for setting up Steel Shots & Grits Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Steel Shots & Grits Manufacturing Business?
- 12. What is the Manufacturing Process of Steel Shots & Grits?



- 13. What is the total size of land required for setting up Steel Shots & Grits Manufacturing plant?
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Reasons for Buying our Report:

- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- 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 Approach:

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report



Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Steel Shots & Grits." provides an insight into Steel Shots & Grits market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Steel Shots & Grits project. The report assesses the market sizing and growth of the Indian Steel Shots & Grits 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 Steel Shots & Grits sector in India along with its business prospects. Through this report we have identified Steel Shots & Grits project as a lucrative investment avenue.



Tags

#projectreport #businessconsultant #businessfeasibilityreport #BusinessPlan #SteelShots #SteelGrits #Abrasiveblasting #mechenical



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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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

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......Read more



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What do we offer?

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- Technology Books and Directory
- O Industry Trend
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- O Entrepreneur India (An Industrial Monthly Journal)

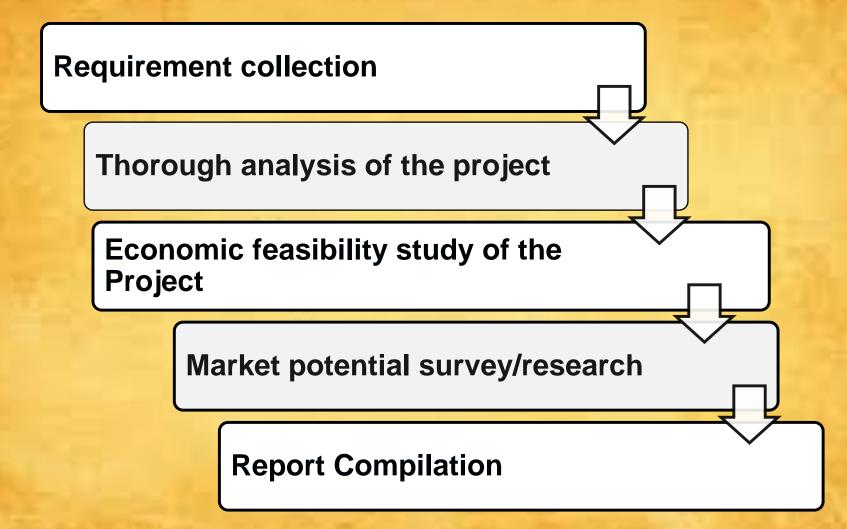


How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



Our Approach





Contact us

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