How to Start Food Packaging Foil Manufacturing Business.
Production of Aluminium Foil - Big Profit Industry

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Introduction

Aluminum foils are produced by continuous casting and cold rolling of aluminum sheets. They are prepared in thin metal leaves and can be used to wrap around any product for packaging. They act as a major barrier to bacteria, oxygen, and moisture. These are used in the pharmaceutical and food and beverage sectors.
Packaging in today’s world has emerged as an integral part of the brand promotion. Owing to modern-day lifestyle coupled with today’s fast-paced life, customers’ inclination towards convenience packaging has increased. Aluminum is a kind of metallic element available in abundance across the globe and is preferably used as a barrier resistant material for packaging to safeguard food & beverages, pharmaceutical, cosmetics, etc. Aluminum foil sheets are readily used in the manufacturing of various kinds of containers as per packaging requirements.
Aluminium foil provides various benefits to the food and packaging industries. The consumers can heat or freeze food items in the foil container directly. Aluminium foil packaging material is a part of the flexible packaging material and is generally formed using aluminium sheets. Aluminium foil can be utilized to wrap around any product for packaging functions. It is produced through the regular casting and cold calling. Aluminium foil packaging is a sort of packaging, which arranges a resistant barrier to safeguard food, beverage, cosmetics and pharmaceuticals and helps in waste reduction. Aluminium packaging is extremely corrosion-resistant and chemically neutral. Moreover, it is hygienic and non-toxic in nature.
The raw materials for aluminium foil packaging is produced utilizing aluminium sheets and it is a part of stretchable packaging material. The major users of aluminium foil packaging include pharmaceuticals, food and beverage industries. Aluminium foil wrap is produced through regular casting and cold rolling and thus it is favorable to be utilized to enclose around any product for packaging functions.
India, one of the fastest growing economies in the world is seeing a steady GDP growth in recent years. Owing to strong economic growth and increasing middle class with growing disposable income, consumption of aluminium foil is growing fast in India. The change in lifestyle which includes changed food habits has led to increased demand for foil packaging. Growing demand for ready to eat confectionaries and pharmaceutical products is another major growth drivers for aluminium foils industry in India.
Properties of Aluminium Foil Packaging

- Recycling and Recovery
- Formability and Strength
- Heat Performance of the product
- Decorative Characteristics
- Safety and Product Security
- Barrier Protection
- Hygiene
- Eco-Friendly
Aluminum foils are easy to use, recyclable and consumer friendly product. Consumers can directly heat or freeze food products in the foil container. Its applications include personal care, confectionery, healthcare, beverage and varied industrial usage. It is widely used by food industry to pack roasting pans, baking pans, pizza pans, and cookie sheets. It comes in various sizes and shapes and can be easily customized to suit customer demand.

The use and demand for aluminum foil in pharmaceutical and drug industry is poised to grow at a faster rate than any other sector which may be primarily attributed to increasing demand to secure medicines safely. It is followed by increased demand across food packaging industry which includes railway catering services and chocolate production.
Usage of aluminum in the manufacture of lamitudes is anticipated to increase as lamitudes might replace collapsible tubes in the future. In the case of milk, the consumption of foil for making milk cap bottles may decline over the next few years as milk tetra pack are expected to replace the milk bottle market.

Aluminium foil consumption in the Indian states like Maharashtra, Karnataka and Kerala has grown up dramatically by about 50 per cent in anticipation of the proposed ban on use of plastics in these three states.
In 2015, India exported an estimated 14,512 tons of aluminium foil and the total value of export stood at USD 3.1 billion which increased further to total at 16,448 tonnes in 2016. For the first eleven months of 2017, the export volume of foil is forecasted to total at 16,035 tonnes.
Aluminum Foil Packaging by Cosmetic Industry

The demand for aluminum foil packaging in the cosmetic industry will post a CAGR of 2.63% through the forecast period, and the market is estimated to be valued at 1.41 million tons by 2020.

The growth in the cosmetic industry is driving the demand for cosmetic packaging. Aluminum foil is used for the packaging applications in the personal care and cosmetic industries. This provides protection to the products internally and enhances the appearance of the packaging externally. Cosmetic content includes the application of special oils, vitamins, herbal and chemical compounds, which requires protection from light and contamination.
The demand in the global aluminum foil packaging market is anticipated to increment at a CAGR of 4.8% during the forecast period of 2017 to 2025. This prosperity of the market for aluminum foil packaging is a reflection of a number of factors, such as high preference for convenience packaging, growing demand for extended shelf-life of packaged food, popularity of ready-to-eat meals and processed food, and growing usage in pharmaceutical products and confectionaries. On the other hand, the lack of proper recycling processes in a number of countries and competition from alternatives are a few obstructions faced by the global aluminum foil packaging market. Nevertheless, growing emphasis on ecofriendly packaging and foray by the key companies in the emerging economies is expected to open new opportunities in the aluminum foil packaging market.
Global Aluminum Foil Packaging Market Revenue, By Region, 2017 (US$ Mn)

CAGR 4.8% (2017 – 2025)

US$ 7,106.3 Mn

Asia Pacific

Europe
North America
Latin America
Middle East and Africa
Robust economic growth along with rising middle population with inclining personal disposable income is anticipated to intensify the growth of global aluminium foil packaging market during the forecast period. The change in life style which includes changed food habits has led to inclining demand for packaging. Besides this, robust demand for aluminium foil packaging in snacks and chocolate industry are also strengthening the growth of aluminium foil packaging market all across the globe. Some of the major opportunities in global aluminium foil packaging market includes technological development to enhance the product quality, reduction in plants lossess, inclination in the obtainability of foils in different forms for crucial mass consumption usages and progress in the exportability of aluminium foils. The global aluminium foil packaging market is foreseen to observe a robust CAGR during the projected period.
Global Aluminum Foil Demand by Type:

- **Rapid industrialization coupled with heavy air conditioner usage in India, Egypt, Iran, and UAE boost the need for industrial aluminum foils**

- **Blister foil is the major application in pharmaceutical industry, medical industry boom in emerging economies foster demand for aluminum foils**

- **Rolled Aluminum Foil: Aluminum foil is primarily consumed by packaging, transportation, and construction sectors**

- **The packaging industry took the largest share, approx. 41 percent, during 2016, followed by transportation**
It is projected that global rolled foil consumption might increase by 5 percent CAGR from 2016–2021 with the transportation industry being the largest market. Backed Aluminum Foil: These include laminated, embossed, backed with paper, plastics and adhesives. Foil tapes constitute a major part in backed aluminum foils. These are driven by their growing use in electrical and construction purposes giving superior adhesion and extended life.

Developed regions are expected to show moderate growth for backed aluminum foil used in industrial purposes, especially from the electricity sector that uses such foils for insulation purposes.
The market can be segmented into packaging applications and non-packaging applications. Packaging applications involve protecting the food from climatic, chemical and physical hazards. Non-packaging applications which utilize the property of conductivity of this foil include cable and capacitors wraps, the heat exchanging tube fins for air conditioners.

Due to high availability of substitutes in the food & beverages industry, packaging and quality of product have always been the key competitive factors. Also, this is one of the major reasons that why food and beverages manufacturers invest more than 11% of the revenue on packaging.
Dry foods, like aromatic herbs and spices, are best preserved when packed in aluminium packaging medium. Lined cartons are the most favorable packaging method for many dry food products. Latest innovations in packing, like cylindrical design for an easy-to-open packaging mechanism, protective membranes under a plastic re-closable lid for repeated usage, and perforated top seam for easy opening, are revolutionizing aluminium foil packaging in the food industry.
Market for Aluminium Packaging in Percentage

- Food and Beverages: 75% of total aluminium production
- Pharmaceuticals: 7% of total aluminium production
- Cosmetics: 8% of total aluminium production
- Others: 10% of total aluminium production
Machinery Photographs

High Precision Slitting Machine
Doubling, Separating and Slitting Machinery

Laminating Machine

Embossing Machine
## Project at a Glance

### Project at a Glance

#### Cost of Project

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
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## Project at a Glance

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## Project at a Glance

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<th>Return on Net Worth</th>
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# Project at a Glance

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1. What is Aluminium Foil Manufacturing industry?

2. How has the Aluminium Foil Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Aluminium Foil Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Aluminium Foil Manufacturing plant?
5. What is the structure of the Aluminium Foil Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Aluminium Foil Manufacturing Business?

7. What are the operating costs for setting up Aluminium Foil Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Aluminium Foil Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Aluminium Foil Manufacturing plant?

10. What are the requirements of raw material for setting up Aluminium Foil Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Aluminium Foil Manufacturing Business?

12. What is the Manufacturing Process of Aluminium Foil?
13. What is the total size of land required for setting up Aluminium Foil Manufacturing plant?

14. What will be the income and expenditures for Aluminium Foil Manufacturing Business?

15. What are the Projected Balance Sheets of Aluminium Foil Manufacturing plant?

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

17. What is the Built up Area Requirement and cost for setting up Aluminium Foil Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Aluminium Foil Manufacturing Business?

19. What are Statistics of Import & Export for Aluminium Foil?

20. What is the time required to break-even of Aluminium Foil Manufacturing Business?

21. What is the Break-Even Analysis of Aluminium Foil Manufacturing plant?

22. What are the Project financials of Aluminium Foil Manufacturing Business?
23. What are the Profitability Ratios of Aluminium Foil Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Aluminium Foil Manufacturing plant?

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

26. What is the Process Flow Sheet Diagram of Aluminium Foil Manufacturing project?
27. What are the Market Opportunities for setting up Aluminium Foil Manufacturing plant?

28. What is the Market Study and Assessment for setting up Aluminium Foil Manufacturing Business?

29. What is the Plant Layout for setting up Aluminium Foil Manufacturing Business?
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1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
1.1.1. General
1.1.2. Physical Characteristics
1.1.3. Climate
1.1.4. Map
1.1.5. Transportation and Communications
1.1.6. Economy
1.1.7. Major Industries

2. INTRODUCTION

3. USES & APPLICATIONS

4. PROPERTIES OF ALUMINIUM

5. PROPERTIES OF ALUMINIUM FOIL
5.1. DISTINCT PROPERTIES
5.2. MECHANICAL PROPERTIES
5.3. TECHNICAL PROPERTIES

6. BIS SPECIFICATION
6.1. IS 16011:2012: ALUMINIUM AND ALUMINIUM ALLOY FOIL FOR PHARMACEUTICAL PACKAGING - SPECIFICATION
6.2. IS 15392:2003: ALUMINIUM AND ALUMINIUM ALLOY BARE FOIL FOR FOOD PACKAGING
6.3. IS 13237:1991: METALLIC FOIL- TENSION TESTING
6.4. IS 10257:1982: ALUMINIUM FOIL STOCK
6.5. IS 8970:1991: ALUMINIUM FOIL LAMINATES FOR PACKAGING
6.6. IS 7161:1973: VEGETABLE PARCHMENT OR GREASE PROOF PAPER/ALUMINIUM FOIL LAMINATE FOR WRAPPING BUTTER

7. MARKET SURVEY
7.1. NEWLY EMERGING INDICATORS
7.2. ALUMINIUM FOILS

8. FINANCIALS & COMPARISON OF MAJOR PLAYERS/COMPANIES
8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
8.2. PROFITS & APPROPRIATIONS
8.3. TOTAL LIABILITIES
8.4. TOTAL ASSETS
8.5. NET CASH FLOW FROM OPERATING ACTIVITIES
8.6. SECTION – I
8.6.1. Name of Company with Contact Details
8.6.2. Name of Director(S)
8.6.3. Plant Capacity
8.6.4. Location of Plant
8.6.5. Name of Raw Material(S) Consumed with Quantity & Cost
8.7. SECTION– II
8.7.1. Assets
8.7.2. Cash Flow
8.7.3. Cost as % ge of Sales
8.7.4. Forex Transaction
8.7.5. Growth in Assets & Liabilities
8.7.6. Growth in Income & Expenditure
8.7.7. Income & Expenditure
8.7.8. Liabilities
8.7.9. Liquidity Ratios
8.7.10. Profitability Ratio
8.7.11. Profits
8.7.12. Return Ratios
8.7.13. Structure of Assets & Liabilities (%)
8.7.14. Working Capital & Turnover Ratios

9. EXPORT & IMPORT STATISTICS DATA OF INDIA
9.1. EXPORT STATISTICS DATA OF ALUMINIUM FOIL
9.2. IMPORT STATISTICS DATA OF ALUMINIUM FOIL

10. PRESENT MANUFACTURERS

11. SPECIFICATION OF DIFFERENT TYPES OF FOIL
11.1. ALUMINIUM PHARMACEUTICAL FOIL
11.1.1. Specification
11.1.2. Chemical Compositions
11.1.3. Mechanical Properties
11.2. ALUMINIUM CIGARETTE PACKING FOIL (DOUBLE ZERO FOIL)
11.2.1. Specification
11.2.2. Chemical Compositions
11.2.3. Tensile Strength Property
11.3. ALUMINIUM HOUSEHOLD FOIL
11.3.1. Specification
11.3.2. Chemical Compositions
11.3.3. Tensile Strength Property
11.3.4. Applications
11.4. ALUMINIUM CONTAINER FOIL
11.4.1. Specification
11.4.2. Thickness Options
11.4.3. Coating/Lubrication
11.5. PRINTED ALUMINIUM FOIL/SHEET
11.5.1. Specification
11.5.2. Chemical Compositions
11.5.3. Mechanical Properties
11.6. ALUMINIUM BEER MARK FOIL
11.6.1. Specification
11.6.2. Tensile Strength Property
11.6.3. Mechanical Properties
11.7. INSULATED ALUMINIUM FOIL
11.7.1. Chemical Compositions

12. MANUFACTURING PROCESS
12.1. RAW MATERIAL REQUIRED
12.2. MACHINERY REQUIRED
12.3. PROCESS DETAILS

13. PRINTING/COLORING ON ALUMINUM FOIL

14. PROCESS FLOW DIAGRAM

15. BUYER’S LIST
15.1. CONTACT DETAILS OF BUYER’S
15.2. NAME OF DIRECTOR(S)
15.3. PLANT CAPACITY
15.4. LOCATION OF PLANT
15.5. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

16. SUPPLIERS OF PLANT & MACHINERY

17. SUPPLIERS OF RAW MATERIAL
18. PRODUCT, MACHINERY & RAW MATERIAL PHOTOGRAPHS
18.1. PRODUCT PHOTOGRAPHS
18.2. MACHINERY PHOTOGRAPHS
18.3. RAW MATERIAL PHOTOGRAPHS

19. PLANT LAYOUT

20. QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Factory Land & Building
Site Development Expenses

www.entrepreneurindia.co
• Plant & Machinery
  Indigenous Machineries
  Other Machineries (Miscellaneous, Laboratory etc.)

• Other Fixed Assets
  Furniture & Fixtures
  Pre-operative and Preliminary Expenses
  Technical Knowhow
  Provision of Contingencies

• Working Capital Requirement Per Month
  Raw Material
  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store
- Overheads Required Per Month and Per Annum

- Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

- Salary and Wages

- Turnover Per Annum

- Share Capital
  Equity Capital
  Preference Share Capital
• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
Annexure 3 :: Assessment of Working Capital requirements

- Current Assets
- Gross Working Capital
- Current Liabilities
- Net Working Capital
- Working Note for Calculation of Work-in-process

Annexure 4 :: Sources and Disposition of Funds
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• 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
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• Good Present/Future Demand
• Export-Import Market Potential
• Raw Material & Manpower Availability
• Project Costs and Payback Period

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Economic feasibility study of the Project

Market potential survey/research

Report Compilation
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