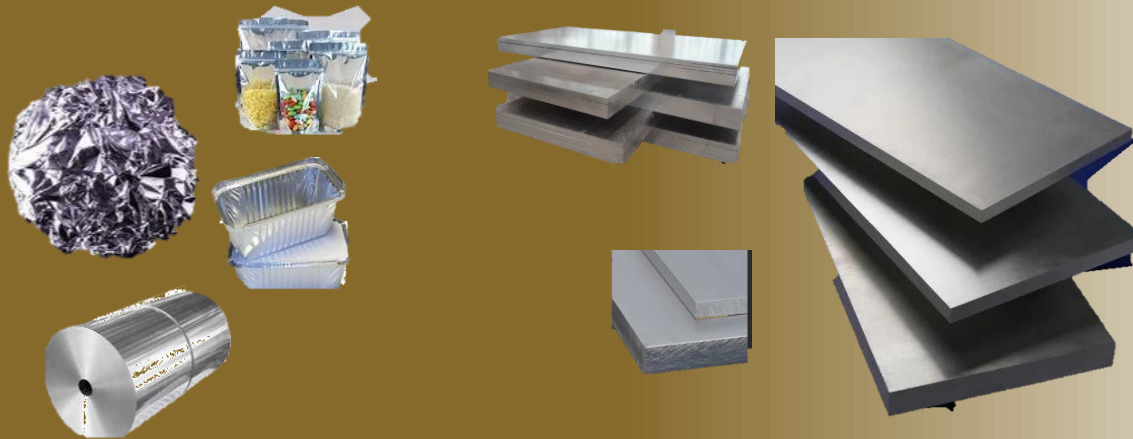




UNITED ARAB EMIRATES
MINISTRY OF INDUSTRY
& ADVANCED TECHNOLOGY

Industrial Investment Opportunities



Aluminum foil

Opportunity

Aluminum flat products include Aluminum foil, sheets and plates

Aluminum foil

Focus of opportunity
assessment for
Aluminum products

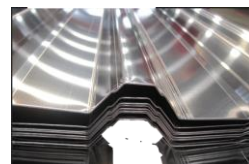
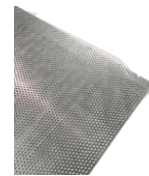
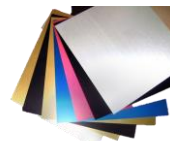
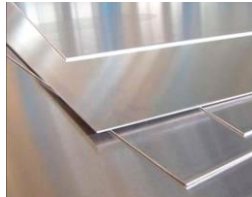
Product description

- End-product of pressed aluminum with a **thickness below 0.2 mm**

Main applications

- Packaging (food, pharmaceuticals, consumer)
- Construction
- Other (electronics, automotive components)

Aluminum sheets



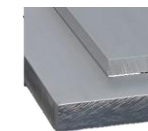
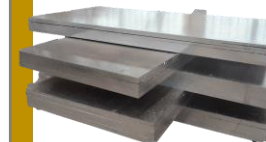
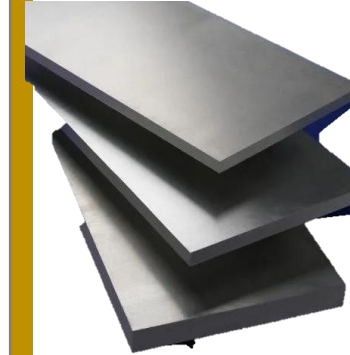
Product description

- Aluminum sheets are formed when aluminum is pressed and rolled under intense pressure to a **thickness ranging between 0.2 – 6 mm**

Main applications

- Construction
- Transport
- Ship building and ocean engineering
- Machinery and Equipment
- Electrical

Aluminum plates



Product description

- Aluminum plates are the result of aluminum slabs being rolled to a **thickness ranging between 6 – 200 mm**

Main applications

- Construction
- Transport
- Ship building and ocean engineering
- Machinery and Equipment

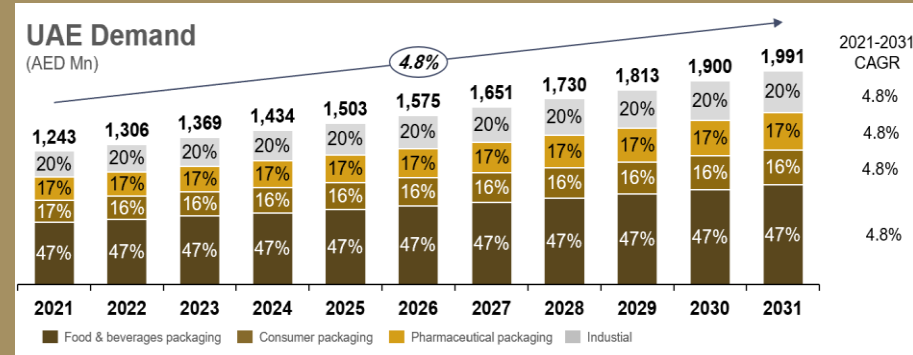


Aluminum foil Opportunity

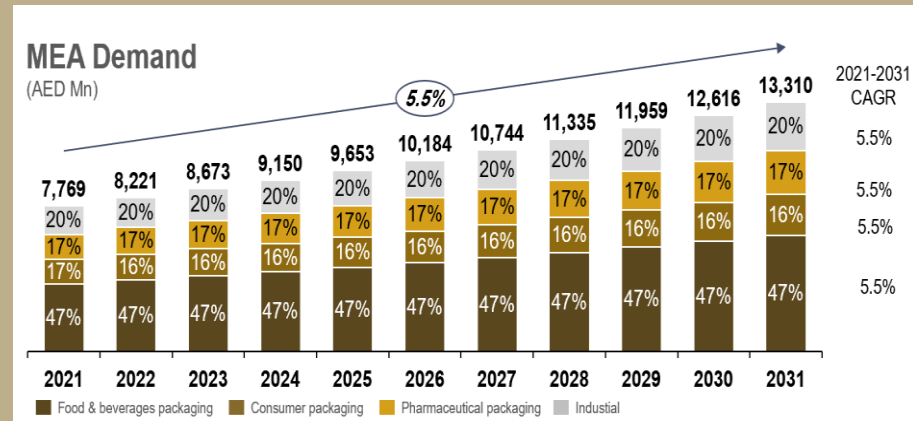
Investment Case

- Setup medium-sized facility focused on manufacturing of aluminum foil which are aluminum products pressed under intense pressure to reach a thickness less than 0.2mm and to the specifications of the end-user)
- **Investment Size:** AED 290 - 295 Mn
- **Plant Capacity:** 40,000 – 45,000 ton/year.
- **Work Force:** 95 – 120 employees
- **Expected IRR:** 11%
- **Expected NPV (10 Yrs) :** AED 130Mn
- **Payback Period:** 12 Yrs

The demand for aluminum foil production is expected to grow at 4.8% p.a.



The MEA demand for aluminum foil production is expected to grow at 5.5% p.a.

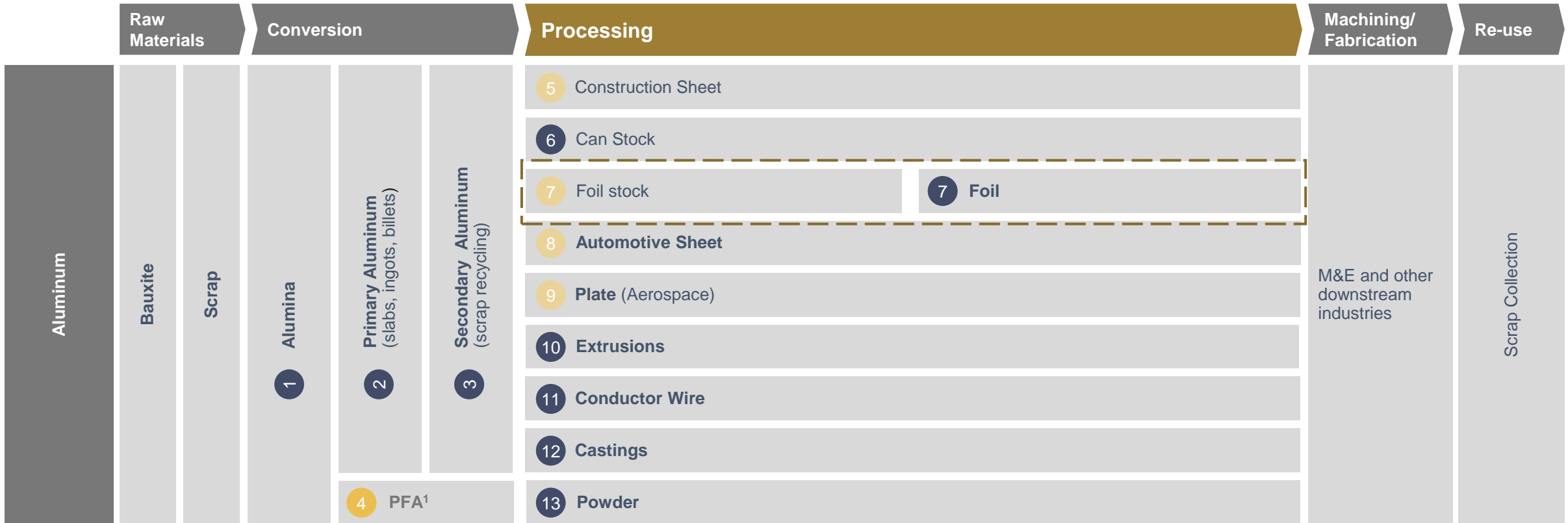


Key market trends

- The main driver for the increasing growth in aluminum foil products is its use in food and beverage packaging
- This is due to its durability, safety benefits and use in various packaging solutions
- Increased demand for consumer product packaging is driving growth in demand of aluminum foil
- The pharmaceutical packaging segment has been historically the smallest but is improving its relative position in the overall market
- Aluminum foil is attractive for pharmaceutical and medical packaging as it provides protection against radiation, gases, micro-organisms and moisture

Value chain for aluminum

UAE's current capabilities are focused on upstream activities, but there are opportunities to go downstream given the availability of raw material



Current status of UAE capability **xx** Active **xx** Not active

xx Manufacturing plant focus products

Aluminum foil production



Value proposition

- Strategic location that can act as a dispatch hub for MENA
- UAE ranked 16th globally in Ease of Doing Business (WB)
- UAE ranked #10 globally for world class infrastructure in (LPI)
- High quality of life attractive for skilled talent
- 100% foreign business ownership and low VAT (5%)
- Competitive costs of licensing costs and work visas (under process)
- Strong logistics infrastructure - UAE has busiest ports in MENA region strategically located and enable seamless flow of trade across a region of more than 3.5bn.



Enablers

- Up to 80% project financing by Emirates Development Bank
- 2-year grace periods and low interest-rate loans for CAPEX, working capital, and supply chain financing.
- Export credit and insurance via Etihad Credit Insurance and AD Exports
- Access to Free Trade Agreements with high-growth markets such as GCC, Arab countries, Egypt, India, Jordan, Israel, Indonesia, and others
- Customs exemptions for raw materials
- 53% of UAE's exports are to countries with no import duties (GCC countries and other GAFTA countries with FTAs)