

REYNOLDS METALS COMPANY

1983 BACKGROUND DATA

INDUSTRIAL HYGIENE
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FACTS ABOUT REYNOLDS

- A worldwide, vertically integrated producer of primary and recycled aluminum and fabricated aluminum products. Its operations range from the discovery, mining and processing of bauxite to the production of aluminum products for a variety of industrial and consumer markets.
- The second largest U.S. aluminum company
- Worldwide primary aluminum production capacity is 1.3 million short tons, equal to eight percent of the free world's total.
- Reclaimed aluminum production capacity is 311,000 short tons.
- Assets—$3.3 billion.
- 1982 sales—$3 billion.
- 27,000 employees.
- 27,300 shareholders.
- 52 domestic plants, 72 sales locations. Subsidiaries and associated companies operate abroad in 17 countries.
- Pioneered consumer aluminum recycling and last year recycled 540 million pounds of aluminum.

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Raphael's version of "Saint George and the Dragon." The legend of England's patron saint, depicted in noted paintings, symbolizes the crusading spirit, and was the inspiration in 1935 for the Reynolds Metals Company trademark.

Cover Caption: Aluminum panels that will form the space shuttle's external fuel tank are inspected to ensure adherence to stringent quality specifications at Reynolds McCook, Ill., sheet and plate plant.



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REYNOLDS DIVISIONS, MAJOR MARKETS AND PRODUCTS

DIVISIONS

Mineral Resources Development Division

Consumer Products Division
Markets *Reynolds Wrap* and *Diamond* foil lines of household aluminum foils, *Reynolds* Plastic Wrap

MAJOR MARKETS

Aircraft
Reynolds supplies aluminum such as sheet, plate, extrusions and machined wingskins for jetliners to all major domestic aircraft and aerospace companies. Reynolds machines panels for the external fuel tanks and frame of the space shuttle and is a leader in developing aluminum alloys for these industries.

Automobiles and Trucks
The average 1983 model American car contains about 135 pounds of aluminum, the most ever. Applications include bumpers, engine blocks and heads, body sheet panels, intake manifolds, steering gear housings, wheels, alternator housings, transmission housings, air conditioner heat exchangers and aluminum radiators. Heavy duty trucks have aluminum cabs, fuel tanks, main chassis supports, floors and wheels.

Beverage
The beer and soft drink industries use aluminum packaging and container products such as all-aluminum cans, foil bottle labels, foil laminated cartons and foil-laminated, extrusion-coated pouch materials.

Calcined Coke
Anode grade calcined coke produced for internal use and outside markets.

Chemicals
Reynolds alumina chemicals are used in the ceramic, paper and chemical industries.

Consumer
Reynolds Wrap is the leading quality brand consumer wrapping material. Reynolds markets other consumer products including *Reynolds* Plastic Wrap, *Diamond* foil, *Reynolds* Freezer Paper, *Reynolds* Oven Cooking Bags and Reynolds *Redi-Pan* foil ware.

Consumer Durables
Aluminum tubing is widely used in refrigerators, freezers and air conditioners. Kitchen utensil manufacturers use large amounts of aluminum.

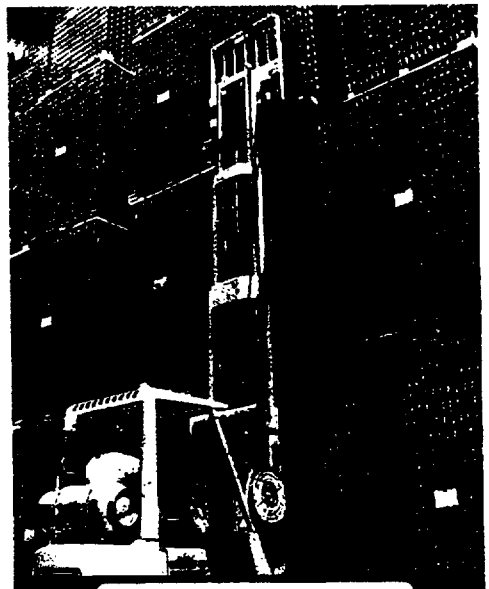
Distributors
Reynolds markets a full range of aluminum products including sheet, plate and extrusions, wire, rod and bar, and specialty items to a vast network of aluminum distributors, one of the largest growing markets for aluminum mill products. These distributors, located across the country, offer the full range of aluminum mill products and the capability to process custom requirements.

Electrical
Reynolds produces a full line of top quality electrical wire and cable products and continues to expand its technological expertise and product line.

Farming
Aluminum roofing and siding products are widely used in agricultural applications because of lightweight, low maintenance and reflectivity characteristics.

Foodservice
Reynolds popular line of disposable products for foodservice includes foil, film, aluminum containers and *Cushion Fold* sandwich wraps.

Flexible Packaging
Hundreds of products are wrapped in foil, packaged in foil laminated cartons, protected in extrusion-coated printed foil pouches and foil-lined composite cans, or marketed with a printed foil label. Reynolds *Flex-Can* retortable pouch is shelf-stable and offers the convenience of a can along with product quality previously associated with frozen foods. Aluminum foil packaging offers a quality image and remains unchallenged as the lightest weight, lowest cost-effective barrier to moisture and light, oxygen and other gases.



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General Purpose Packaging
Reynolds line of tailor-made premium shrink and stretch *Reynolon* film is distributed throughout the country for overwrapping food and non-food products such as produce, meat, baked goods, toys, games, textiles and stationery.

Housing
Reynolds aluminum building products include siding, gutters, soffit, roofing shingles, windows, sliding glass doors and extrusions. For new construction and home improvement, aluminum building products offer energy conservation and low maintenance advantages.

Pharmaceutical
Reynolds pharmaceutical packaging materials include a line of tamper-evident pouches, blister packaging, film overwraps, foil seals and membranes, and high-technology packaging for medical devices and transdermal medication. Reynolds is a leader in developing flexible child resistant packaging and unit dose packaging systems.

Powder and Paste
Aluminum powder is used by the chemical industry in biodegradable detergent and by the mining industry in explosives. Aluminum pigment gives paint a bright, metallic finish, and in roof coatings it helps to reflect the sun's rays in the summer and hold in heat in the winter.

Railroad
Coal-fired generating stations are serviced by unit trains of railcars made of Reynolds aluminum. Reynolds supplies aluminum plate and extrusions for railcars and offers fabricated kits for covered hopper cars and gondolas.

Solar
Reynolds is the only major aluminum company selling and installing solar hot water heating systems. Reynolds systems can be adapted to existing hot water systems or built into new construction projects. Sold through dealers and Reynolds own solar sales operations, they are used in residential and commercial applications.

Tobacco and Confectionary
The oldest of the company's packaging markets. Reynolds is a major supplier of foil packaging for cigarette liner stock, chewing and smoking tobacco, and various chewing gum, candy and mint products



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PRINCIPAL REYNOLDS PRODUCTS

Stadium seating
Pedestrian bridges

MILESTONES IN REYNOLDS HISTORY

1919 U.S. Foil Company, the parent of Reynolds Metals Company, founded by R. S. Reynolds, Sr., in Louisville, Ky., to produce lead and tin foil for tobacco packaging.

1926 Production of aluminum foil began.

1928 Reynolds Metals Company was formed to provide a more flexible corporate structure for the rapidly expanding business.

1930 Foil rolling plant acquired in Richmond, Va. Reynolds would soon become the industry leader in aluminum foil packaging. Executive offices moved from Louisville to New York.

1936 First venture outside U.S., organized to produce aluminum foil in Havana.

1938 R. S. Reynolds went to Europe for more aluminum for his growing company. He could not buy any in Germany, yet she was producing vast amounts. This indicated to him that Germany was planning an air war with aluminum playing a big role. Executive offices moved to Richmond.

1940 The most significant year in the company's history. Mr. Reynolds decided to become a primary aluminum producer, the nation's second, to help meet America's need for aluminum. He mortgaged the company and built Reynolds first reduction plant in Alabama. Bauxite mining began in Arkansas.

1941 The business began to expand rapidly. First aluminum ingot poured at Listerhill, Ala.; alumina plant, sheet mill added there. Reduction plant built at Longview, Wash.

1943 Reynolds pioneered bauxite mining in Jamaica, with the development of a process to use Jamaican bauxite commercially.

1946 After WW II, U.S. aluminum capacity was many times its pre-war level. As military needs dropped, many believed civilian demand could not absorb the capacity of private plants and that government-owned plants should be mothballed. Mr. Reynolds, however, believed that the nation was ready to use all the capacity and leased (and later purchased) six government plants, doubling the company's capacity. The company began to pioneer new uses for aluminum and would soon become a leader in innovative applications of aluminum.

1947 *Reynolds Wrap* household aluminum foil introduced.

1950 More capacity was needed to supply new markets and the military needs for the Korean conflict. Reynolds built a reduction plant (1952) and an alumina plant (1953) in Texas, and a reduction plant in Arkansas (1954). These reduction plants were expanded in 1955.

1957 Bellwood, Va. aluminum foil printing plant opened, to become the world's largest of its kind.

1963 Reynolds developed the first 12-ounce all-aluminum can which would revolutionize beverage packaging. Began calcined coke operation at Baton Rouge.

1964 $140 million company-wide plant expansion and improvement program began to use advancing technologies and improve operating efficiencies. First can plant built.

1967 Reynolds pioneers consumer recycling of aluminum with a pilot recycling program.

1969 Reynolds exceeds billion dollar sales for the first time. Company reorganized into divisions responsible for profit performance.

1970 First all-aluminum engine block introduced, developed by Reynolds and General Motors.

1971 *Reynolds* Oven Cooking Bags added to consumer products line.

1974 Multi-million dollar expansion program launched to quadruple recycling and reclamation operations. Company's profit passed $100 million for the first time.

1977 Capital program announced to construct a continuous rolling plant in Arkansas which produces aluminum foil feedstock at an energy savings of as much as 50 percent over conventional methods. Reynolds *Flex-Can* retortable pouch received FDA and USDA approval.

1978 Multi-million dollar expansion and improvement program for the McCook sheet and plate plant began to serve growing demand in distributor, transportation and container sheet markets.

1980 Company became a participant in $1 billion bauxite mining and alumina project in Australia.

1981 Reclamation capacity expanded with new facilities in Alabama, Michigan.

1982 *Reynolds* Ptastic Wrap introduced. Expansion for Quebec reduction plant began.

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RESEARCH AND DEVELOPMENT

Reynolds Research and Development organization has been an important key to establishing the company's reputation as an industry innovator. Today much of Reynolds R&D is aimed at improving productivity, product quality, energy efficiency, new product development and revolutionary process innovations.

The Corporate Research and Development Division provides extensive technical assistance to Reynolds operating divisions and customers and includes metallurgical research, process and product development, alumina and reduction research. Several operating divisions have technology functions for their product lines as well. Reynolds has pioneered many important applications for aluminum.

SOME REYNOLDS "FIRSTS"

Foil laminated cartons (1929)

Rotogravure printing on aluminum foil (1935)

Pre-fabricated aluminum aircraft parts (1942)

Pioneer of aluminum siding for houses (1945)

Aluminum railroad refrigerator and boxcar (1945)

Portable aluminum irrigation pipe (1946)

Successful household foil, *Reynolds Wrap* (1947)

Aluminum foil container (1948)

Basic materials producer to advertise its products on network television (1951)

Pre-enameled aluminum sheet (1955)

Aluminum strip conductor for power transformer windings (1956)

All-aluminum high strength conductor for overhead power lines (1957)

Pioneer work in space program. Fabricated ballistic shell and spin launcher for Army's Jupiter-C rocket used to orbit first U.S. satellites (1957-61)

Heat-shrinkable polyvinyl chloride packaging film (1958)

Aluminum drill pipe (1960)

Pioneer of 12-ounce aluminum can (1963)

All-aluminum, deep diving submarine (1964)

Commercially feasible non-weld method for joining aluminum pipe (1968)

Commercially feasible fluxless vacuum brazing of aluminum (1969)

All-aluminum automobile engine block (1970)

Successful nationwide aluminum can recycling and reclamation program (1970)

Plastic consumer oven cooking bag (1970)

All-aluminum bumpers on U.S. autos (1973)

All-aluminum bodied car built to modern strength requirements (1973)

Stay-On-Tab end for beverage cans (1975)

Practical application of the retort pouch (1977)

Wrought aluminum wheel (1978)

Marketing of solar hot water heating systems by an aluminum producer (1978)

Recycling of 1 billion pounds of aluminum by a consumer recycling program (1980)

High purity alumina for optical and electronic uses (1980)

Aluminum wine can (1981)

Two-story all-aluminum house (1982)

Aluminum concentric neutral underground electrical cable with built-in cathodic protection (1982)

Specification can stock ingot made from 100% can scrap (1982)



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Aluminum is often called the most versatile metal because of its many advantages:

Light weight—about a third that of copper, steel or brass.

Strength—greater than structural steel in many cases

Stiffness and resistance to buckling—greater per pound than that of the highest strength steels.

Permanent Natural Beauty—apparent at first glance.

Resistant to Corrosion—no red rust, ever.

Easy to Fabricate—one of the most workable metals.

Low Cost—pound for pound, aluminum provides three times as much material as many other common metals.

Long Life—a virtually indestructible metal.

Electrical Conductivity—greater per pound than any other metal.

High Heat Reflectivity—up to 90 percent of the sun's heat rays.

Heat Conductivity—a natural property of aluminum.

Low Emmisivity—minimizes loss of heat.

Friendly to Foods—safeguards purity, color, flavor.

Moisture-Vapor Barrier—aluminum foil helps maintain the freshness of foods longer.

Non-Magnetic—important in sensitive electronic equipment.

Cold Strength—cold aluminum gets stronger and tougher.

Recyclable—converts easily into reusable metal.

High Scrap Value—aluminum is worth many times that of other common materials.

Energy Bank—recycling aluminum saves 95 percent of the energy needed to make the metal from ore.

Since its inception, Reynolds has striven to be a responsible, contributing member of the society in which it does business. To this end, the company has established a variety of corporate programs.

Equal Opportunity
Reynolds is an equal opportunity employer and hires and promotes regardless of race, color, creed, sex, age, national origin, religion, handicap or veteran status. Equal opportunity is a byword in promotions and in training programs that upgrade job skills.

Employee Benefits
Reynolds believes that its employees are its greatest asset and has established a comprehensive benefits program that compares favorably with any industry. Company health and medical benefits include company-paid health and medical plans, including dental and eye care, and assistance to overcome personal problems. The company encourages self-development and offers a tuition refund plan as well as on-the-job and other training programs.

Reynolds Foundation
The Foundation provides funding and manages corporate contributions to educational and community projects. Reynolds and its employees have provided substantial financial and volunteer assistance for educational, civic, medical and cultural programs. Reynolds employees are encouraged to participate in worthwhile community activities.

Architectural Awards
Two major awards are sponsored by Reynolds and administered by the American Institute of Architects. The R. S. Reynolds Memorial Award for distinguished architecture using aluminum (est. 1957) confers a $25,000 honorarium and original sculpture in aluminum from an established artist. The Reynolds Aluminum Prize for Architectural Students was established to encourage creativity among America's future architects. The prize grants $5000 for the student and school to divide equally. There are two honorable mention prizes and local prizes for the winner at each participating college.

Respect for the Environment
Reynolds operates its facilities in strict compliance with air, water and land use regulations. The company has invested millions of dollars in environmental controls to insure compliance with applicable standards. Representatives from several areas of expertise comprise the company's Environmental Control Committee which directs the

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development of technology for providing adequate protection of the environment.

Energy Conservation

percent of the energy required to make the metal from bauxite ore.

Reynolds has developed the technology to recover

OPERATING DATA

Location/Type	Established	Employees*	Payroll & Employee Benefits	Products	Annual Capacity
ALABAMA					
Listerhill Reduction	1941	252	$ 15,126,000	alloyed and unalloyed ingot	202,000 tons
				silicon	18,000 tons
Listerhill Alloys Plant	1941	2,745	$114,997,000	sheet	423,600 tons
				wire, rod, bar and rolled shapes	50,000 tons
Alabama Reclamation	1969	321	$ 12,708,000	recycled aluminum ingot & molten aluminum	131,000 tons
ARIZONA					
Phoenix Extrusion	1946	691	$ 26,946,000	extrusions, drawn tubing and pipe	35,700 tons
Phoenix Structural Fabrication	1959	24	$ 793,000	fabricates structural parts for bridges, railroad car equipment, truck frames, bumpers, etc.	not applicable
ARKANSAS					
Arkadelphia Reduction	1952	458	$ 18,208,000	alloyed and unalloyed ingot, extruded billet	68,000 tons
Hot Spring Continuous Rolling	1979	218	$ 8,646,000	foil feedstock	200,000 tons
Hurricane Creek Alumina	1946	818	$ 33,075,000	converts raw bauxite into aluminum oxide	650,000 metric tons
Jones Mills Reduction	1947	472	$ 21,579,000	alloyed and unalloyed ingot, molten aluminum	125,000 tons
Malvern Cable	1967	115	$ 5,484,000	electric wire, cable, and conductors	30,000 tons
CALIFORNIA					
Torrance Extrusion	1955	79	$ 2,980,000	extruded and fabricated shapes	10,295 tons
Torrance Can	1965	366	$ 15,536,000	aluminum cans	1,460 million cans
San Francisco Can	1970	169	$ 6,744,000	aluminum cans	820 million cans
West Coast Can End	1975	221	$ 8,049,000	easy-open beverage can ends	3,222 million ends
FLORIDA					
Tampa Can	1965	201	$ 9,285,000	aluminum cans	661 million cans
HAWAII					
Hawaii Can	1979	115	$ 3,035,000	aluminum cans	360 million cans
ILLINOIS					
McCook Sheet & Plate	1946	1,606	$ 70,042,000	sheet and plate	304,200 tons
KENTUCKY					
Louisville No 1 Foil	1919	631	$ 23,953,000	foil rolling for packaging & *Reynolds Wrap*	73,089 tons
				consumer and foodservice containers	382,000,000 pieces
Louisville No. 3 Powder & Pigment	1929	142	$ 6,008,000	powder, paste and granules for rocket fuels, paints, explosives	19,790 tons
Louisville No. 15 Extrusion	1953	183	$ 7,291,000	extrusions, tubing	21,300 tons
LOUISIANA					
Baton Rouge Calcined Coke	1963	53	$ 2,338,000	calcined coke for reduction anodes	700,000 tons
MICHIGAN					
Grand Rapids Extrusion	1946	527	$ 18,585,000	extruded shapes and tubing	40,470 tons
MISSOURI					
Kansas City Can	1981	142	$ 6,080,000	aluminum cans	702 million cans

*Employment totals are based on 1982 averages

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Location/Type	Established	Employees*	Payroll & Employee Benefits	Products	Annual Capacity
NEW JERSEY					
Macauley Can	1966	271	$ 11,880,000	aluminum cans	452 million cans
NEW YORK					
Massena/St. Lawrence Reduction	1959	793	$ 29,648,000	alloyed and unalloyed ingot, molten aluminum, extrusion billet, and sheet ingot	126,000 tons
Wallkill Can	1971	156	$ 6,192,000	aluminum cans	1,086 million cans
NORTH CAROLINA					
Salisbury Can	1979	152	$ 5,948,000	aluminum cans	720 million cans
OHIO					
Ashville Construction Products	1971	163	$ 4,579,000	aluminum siding, extrusions, rain carrying equipment, house trim	32,700 tons
OREGON					
Troutdale Reduction	1946	505	$ 22,672,000	alloyed and unalloyed ingot	130,000 tons
PENNSYLVANIA					
Downingtown Plant	1981	331	$ 9,215,000	printed and laminated flexible packaging materials	350,000,000 linear yards
TEXAS					
Corpus Christi San Patricio Reduction	1952	195	$ 9,809,000	alloyed and unalloyed ingot and sheet ingot	114,000 tons
Corpus Christi Sherwin Alumina	1953	778	$ 32,234,000	converts raw bauxite into aluminum oxide	1,700,000 metric tons
Eagle Pass Fluorspar	1957	30	$ 821,000	fluorspar	84,000 tons
Houston Can	1970	244	$ 11,000,000	aluminum cans	1,087 million cans
VIRGINIA					
Bellwood Extrusion	1956	423	$ 12,841,000	extruded shapes, pipe, tubing, fabricated parts	36,000 tons
Bellwood Printing	1957	609	$ 20,498,000	printed and laminated foil packaging	480,000,000 linear yards
Bellwood Reclamation	1948	104	$ 3,844,000	recycled aluminum ingot, deoxidants, anodes	41,500 tons
				aluminum granules	2,000 tons
Bellwood #44	1959	69	$ 2,766,000	sheet	22,200 tons
Bristol Can End	1971	498	$ 19,709,000	aluminum can ends	6,013 million ends
Chesterfield County Can Machinery	1976	110	$ 3,659,000	can making machinery	not applicable
Can Fabrication	1978	61	$ 2,256,000	can making machinery	not applicable
Can Equipment Implementation	1962	11	$ 478,000	can making	60 million cans
Grottoes Plastics	1956	328	$ 10,179,000	plastic films, *Reynolds* Plastic Wrap	18,000 tons
Richmond Foil Plant	1930	789	$ 28,299,000	*Reynolds Wrap* foil and converted products	92,920 tons
				freezer paper	not applicable
WASHINGTON					
Longview Cable	1970	202	$ 6,458,000	electrical wire and cable	25,000 tons
				redraw rod in addition to that required for cable manufacturing	35,000 tons
Longview Reduction	1941	753	$ 31,890,000	alloyed and unalloyed ingot extrusion billet and molten aluminum	210,000 tons
Seattle Can	1980	127	$ 5,189,000	aluminum cans	667 million cans

*Employment totals are based on 1982 averages

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REYNOLDS DOMESTIC CAPACITIES

Type & Number Of Plants	Annual Capacity
Alumina (2)	2,350,000 metric tons
Reduction (7)	975,000 tons
Sheet & Plate (3)	750,000 tons
Extrusion (5)	143,765 tons
Wire, Rod, Bar (1)	50,000 tons
Aluminum Cable (2)	55,000 tons
Powder, Paste & Granules (1)	19,790 tons
Foil Rolling (2)	166,009 tons
Continuous Rolling (1)	200,000 tons
Plastic Films (1)	18,000 tons
Fluorspar (1)	84,000 tons
Cans (10)	7,961 million cans
Can Ends (2)	9,235 million ends
Can Machinery (2)	Not applicable
Calcined Coke (1)	700,000 tons
Fabricated Parts (1)	Not applicable
Foil Printing (2)	830,000,000 linear yards
Reclamation (2)	174,500 tons
Machinery (2)	Not applicable
Building Products (4)	32,700 tons
Silicon (1)	18,000 tons

REYNOLDS SALES INFORMATION

California, Los Angeles
5670 Wilshire Blvd 90036

Georgia, Atlanta
Corporate Campus
Suite 3150
1140 Hammond Dr. N.E. 30328

Illinois, Chicago
First Federal Office Plaza
1699 East Woodfield Rd.
Schaumburg, Ill. 60195

Michigan, Detroit
16000 Northland Dr.
Southfield, Mich. 48075

Missouri, St. Louis
7711 Carondelet Ave
Clayton, Mo. 63105

New Jersey, Iselin
70 Wood Ave., S 08830

Pennsylvania, Philadelphia
10 Presidential Blvd., N.
Bala-Cynwyd, Pa. 19004

Texas, Dallas
Suite 430
7839 Churchill Way 75251

Washington, Seattle
Suite 300
15446 Bel-Red Rd.
Redmond, 98052



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INTERNATIONAL OPERATIONS

Reynolds has been in the forefront of international expansion of the aluminum industry since its first plant outside the U.S. in 1936. Today Reynolds Aluminum International Services, Inc. (RAISI) is the international operating subsidiary of Reynolds Metals Company which manages many of Reynolds investments in overseas operations. RAISI also has international marketing responsibility for products made in the U.S., represents Reynolds technology worldwide and is involved with other foreign aluminum companies through engineering, training and technical support agreements.

MANUFACTURING ABROAD

Subsidiaries, Associated & Related Companies
(Country, Company & Products)

Australia
Worsley Alumina Proprietary Ltd
Bauxite and alumina

Belgium
Reynolds Aluminium Europe S.A. (ALEUROPE S.A.)
Extrusions, foil, foil containers, plastic film

Brazil
Omnia Minerios Ltda
Bauxite
Mineracao Rio do Norte S.A.
Bauxite
Valesul Aluminio S.A.
Primary aluminum

Canada
Canadian Reynolds Metals Company Ltd
Primary aluminum; extrusions and fabricated products; aluminum rod, wire cable and flat wire
Reynolds Aluminum Company of Canada Ltd
Sheet, building products, siding, foil, printed foil, packaging materials, foil equipment
Reynolds Aluminum Containers Ltd
Containers and cup lids

Colombia
Aluminio Reynolds, Santo Domingo, S.A. (ALUMIC)
Sheet, foil, extrusions, impact extrusions
Union Industrial y Astilleros Barranquilla (UNIAL, S.A.)
Shipbuilding and metal fabrication
Umco, S.A.
Cooking utensils

Egypt
Egyptian Aluminium Products Company
Extrusions

France
Reynolds Aluminium France
Painted sheet and coil

Ghana
Volta Aluminium Company Ltd
Primary aluminum

Haiti
Reynolds Haitian Mines, Inc.
Bauxite

Italy
Reynolds Wheels S.p.A.
Automobile wheels
Nuova Fonderpress S.p.A.
Aluminum die casting, dies
Reynolds Aluminium Italia S.p.A.
Extrusions
Societa Lavorazioni Industriali Metalli S.p.A. (S.L.I.M.)
Sheet, foil, extrusions

Jamaica
Alumina Partners of Jamaica (ALPART)
Bauxite and alumina
Jamaica Reynolds Bauxite Partners
Bauxite

Mexico
Reynolds Aluminio, S.A.
Sheet, foil, printed foil, extrusions

Netherlands
Reynolds Aluminium Holland B.V.
Extrusions, fabricated products

Philippines
Reynolds Philippine Corporation
Sheet, foil, extrusions, utensils, furniture

Spain
Industria Navarra del Aluminio, S.A. (INASA)
Wire, cable, extrusions, foil, printed foil

Thailand
Reynolds Aluminium (Thailand) Company Ltd
Aluminum sheet and foil

Venezuela
Aluminio Reynolds de Venezuela, S.A. (ALREYVEN)
Extrusions, tubing, roll formed products
Aluminio del Caroni, S.A. (ALCASA)
Primary aluminum, sheet, foil
Superenvases Envalic C.A.
Cans and ends

West Germany
Reynolds Aluminiumwerke GmbH
Extrusions
Hamburger Aluminium-Werk GmbH
Primary aluminum
Reynolds Aluminium Deutschland, Inc.
Sheet
Aluminium Oxid Stade GmbH
Alumina

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INDUSTRY DATA

United States Primary Aluminum Capacity*

Company	Capacity	Percent
Alcoa	1,576,000 tons	28
REYNOLDS	975,000 tons	18
Kaiser	724,000 tons	13
Anaconda	360,000 tons	7
Conalco	360,200 tons	7
Alumax	425,000 tons	8
Howmet	228,200 tons	4
Martin Marietta	275,000 tons	5
Revere Copper & Brass	203,800 tons	4
Noranda	225,000 tons	4
Southwire	90,000 tons	4
National Aluminum	90,000 tons	2
U.S. total	5,532,200 tons	100

*As reported by members of The Aluminum Association as of December 31, 1982

Note: Totals may not add due to rounding

Aluminum Industry Shipments By Markets—1982

Industry	Percent of Total	Shipments (Tons)
Containers & Packaging*	29	1,789,000
Building and Construction	19	1,165,500
Transportation	15	941,500
Electrical	9	578,000
Exports	11	647,500
Consumer Durable Goods	7	399,500
Machinery & Equipment	5	310,000
Other	5	295,000
Total	100	6,126,000

Source: Reynolds preliminary estimates
Includes household foil

U.S. Primary Aluminum Production, 1973-1982

Year	Production*
1982	3,603
1981	4,949
1980	5,130
1979	5,023
1978	4,804
1977	4,539
1976	4,251
1975	3,879
1974	4,903
1973	4,529

In thousands of short tons. Source: The Aluminum Association

U.S. Shipments of Products to Consumers, 1973-1982

Year	Shipments*
1982	6,125
1981	6,681
1980	7,040
1979	7,280
1978	7,215
1977	6,493
1976	6,213
1975	4,965
1974	6,866
1973	7,343

In thousands of short tons. Includes imports of ingot and mill products. Source: Department of Commerce

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REYNOLDS METALS COMPANY

DIRECTORS

David P. Reynolds
Chairman of the Board and
Chief Executive Officer

John E. Blomquist
Vice Chairman of the Board

William S. Leonhardt
Vice Chairman of the Board
and Chief Financial Officer

William O. Bourke
President and
Chief Operating Officer

Paul Murphy
Vice President,
Special Assignments

Ralph S. Thomas
President and
Chief Executive Officer,
Robertshaw Controls
Company

Allen W. Merrell
Former Chairman,
Sattley Company

Herbert Stein
Professor of Economics,
University of Virginia

Henry R. Linden
President,
Gas Research Institute

Thomas A. Graves, Jr.
President,
College of William and Mary

Neil W. Zundel
Vice President,
Mill Products Division

Richard L. Terrell
Former Vice Chairman,
General Motors Corporation

Tom K. Smith, Jr.
Former Senior Vice President,
Monsanto Company

Jock K. Finlayson
President,
The Royal Bank of Canada

HONORARY DIRECTOR

J. Louis Reynolds
Executive Vice President
Reynolds Metals Company;
Chairman, Reynolds Aluminum
International Services, Inc.

OFFICERS

David P. Reynolds
Chairman of the Board and
Chief Executive Officer

John E. Blomquist
Vice Chairman of the Board

William S. Leonhardt
Vice Chairman of the Board
and Chief Financial Officer

William O. Bourke
President and
Chief Operating Officer

J. Louis Reynolds
Executive Vice President,
Reynolds Metals Company;
Chairman, Reynolds Aluminum
International Services, Inc.

R. Bern Crowl
Executive Vice President

Harold L. Albrecht
Vice President,
Purchasing and
Transportation

Richard N. Bolling
Vice President,
Recycling and
Reclamation Division

Temple N. Brown
Vice President,
Corporate Operations Services

R. Henry Featherston
Vice President,
Raw Materials

John H. Galea
Vice President and
General Counsel

Rodney E. Hanneman
Vice President,
Research, Development
and Energy Resources

Harry V. Helton
Vice President,
Primary Metals Division

Richard G. Holder
Vice President,
Flexible Packaging and
Consumer Divisions

Earl H. Lucas, Jr.
Vice President
Electrical and
Reynolds Aluminum
Supply Company
Divisions

John R. McGill
Vice President,
Personnel

Paul Murphy
Vice President,
Special Assignments

John M. Noonan
Vice President,
Construction Products Division

Robert D. O'Donnell
Vice President,
Can Division

Abram D. Reynolds
Vice President,
Alumina, Chemical and
Marine Divisions

W. G. Reynolds, Jr.
Vice President,
Government Relations and
Public Affairs

Robert W. Winstead
Vice President,
Corporate Quality Assurance

Neil W. Zundel
Vice President,
Mill Products Division

Julian H. Taylor
Treasurer

Richard I. Dawes
Secretary

David C. Bissing
Controller

ASSISTANT OFFICERS

Robert E. Lynch
Assistant Treasurer

Barbara A. Kelley
Assistant Secretary

Jane C. Higgins
Assistant Secretary

Hugh C. Stromswold
Assistant General Counsel
and Tax Counsel

John H. Wright, Jr.
Assistant Controller

REYNOLDS ALUMINUM INTERNATIONAL SERVICES, INC.

Randolph N. Reynolds
President and
Chief Executive Officer

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PRINCIPAL SUBSIDIARIES

DOMESTIC SUBSIDIARIES

Reynolds Aluminum Building Products Company
Sells and installs siding, roofing materials, and solar hot water systems in the Northeastern states.

Reynolds Metals Development Company
Operating company for real estate development projects

Southern Gravure Service, Inc.
Manufactures printing cylinders

Eskimo Pie Corporation
Markets ice cream confections through franchised manufacturers and distributors.

El Campo Aluminum Company
Manufactures extrusions.

Reynolds Aluminum Credit Corp.
Finances sales of aluminum products.

Reynolds Aluminum International Services, Inc.
Provides technical services for international companies.

Reynolds Aluminum Recycling Co.
Operates metal recycling program.

MINING ALUMINA AND SHIPPING

Reynolds Alumina Stade, Inc.
Reynolds Australia Alumina, Ltd.
Reynolds Jamaica Alumina, Ltd.
Reynolds Aluminio Do Brasil, LTDA
Reynolds Australia Mines Pty. Ltd
Reynolds Haitian Mines, Inc.
Reynolds Jamaica Mines, Ltd.
Alumina Transport Corporation
Caribbean Steamship Company, S.A.

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Reynolds has long been committed to quality and strives to be a leader in meeting the quality challenge to American industry. Reynolds management believes top quality performance contributes significantly to cost reduction, energy efficiency and productivity. The company has advanced several management and technical initiatives to improve quality. Effective use of modern quality procedures in all of its manufacturing processes is one of the company's top priorities. Statistical quality control techniques for product quality assurance prevent problems early in the production cycle and form the cornerstone of Reynolds quality program. An intensive program to involve all Reynolds employees in a renewed dedication to quality products and services began in 1982 based on the theme *Our Quality Shines Through*. Reynolds believes that a quality company produces quality products, provides a quality workplace for its employees, contributes to the quality of life in the communities where it operates and is a quality investment.



