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# 15 The Aluminum Association

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**MALLORY MARSHALL**

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*Energy and the Aluminum  
Industry* CRC Press  
Annotation This

comprehensive report  
examines the state of the  
world aluminium industry  
at the start of the 21st  
century, reviewing the

aftermath of 1994's Memorandum of Understanding (MoU), which mothballed 1.5m tonnes of capacity and led to a sharp rise in prices. It examines the damage done to aluminium demand from both the automotive and beverage can sectors, and the effects of talk of recession in the US and Europe in 2001. However, it finds that aluminium is at last beginning to see signs of success in the mass-produced end of the automotive market with the launch of the Audi A2.

Packaging demand is also holding up, although PET is continuing to make gains in the beverage container market. Up-to-date, in-depth research and analysis to make you an authority on the world's major nickel markets This new report is a vital aid to surviving and prospering in a complex and changing market. Western Europe remains a net importer of primary aluminium, with imports of over 2 million tonnes. If the expected growth in per capita aluminium consumption up to 2010

takes place, Europe will rely even more heavily on imported metal from countries such as Russia and the Gulf Co-operation Council countries. Chinese demand for aluminium in building and construction is forecast to grow at an impressive 15% per year. Aluminium will provide 68% of the material weight of the airframe of the new Airbus A3XX. Using current Airbus design principles, about 980 tonnes of semi-finished aluminium products will be needed per aircraft. Aluminium

applications in industrial vehicles grew by 4-5% in the five years to 2000; however, they could increase worldwide by 30-50% by 2005. Aluminium bridges are a new and promising market, with recent technological advances making it possible to construct bridges with spans of up to 100 metres or more. The three biggest European construction markets for aluminium are Italy, with 270,000 tonnes, Germany with 210,000 tonnes and the UK, with 150,000

tonnes. Aluminum Association Shape Control Workshop Papers ASM International A survey of aluminum describing its formation, discovery and manufacture, its versatility, and the many products for which it is used. Aluminum Standards and Data, 1990 John Wiley & Sons Are you making the most of aluminium? Aluminium is one of the most flexible and durable materials to design with. With exceptional strength,

durability and affordability, it provides us with more than simply the ability to select products. When understood properly, aluminium becomes something to design with. In a world where over half humankind now lives in cities there is a need to design zero carbon, attractive and durable architecture. This can only be achieved if we are more resourceful, if we achieve more with less by understanding materials well, using finite element analysis and computer

aided design. Aluminium can be part of that route to affordable and durable architecture. Recycling aluminium takes only 5% of the energy required to produce primary aluminium and it can be recycled almost infinitely without any loss of properties. Combining an inspirational overview of the use of aluminium in architecture and infrastructure with a technical level of detail, this book shows how useful and versatile aluminium is – and how architects can actually

design with it. This book provides access to state of the art research into the best practice in application of aluminium to architecture: from curtain walling and cladding roofing to structural considerations. It demonstrates the material's design flexibility and how it works well with other materials. Each process will be accompanied by exemplar case studies that demonstrate the potential and application. Woven into the structure of the book are the

primary benefits of aluminium: its flexibility, its durability, its sustainable properties and its cost-effectiveness. Whether you're a first year student or a seasoned designer or engineer, this book provides an accessible and deep dive into the uses and benefits of aluminium.  
*Aluminum: how It's Made and where It's Used*  
Woodhead Publishing  
What makes this book unique is a specific focus on aluminum recovery, rather than just recycling

in general. It also offers an integrated discussion of scrap recovery and re-melting operations and includes economic as well as technical elements of recycling. Important topics include a discussion of the scrap aluminum marketplace and how secondary a

Aluminum Recycling ASM International

Written to educate readers about recent advances in the area of new materials used in making products. Materials and their properties usually limit

the component designer.

\* Presents information about all of these advanced materials that enable products to be designed in a new way \*

Provides a cost effective way for the design engineer to become acquainted with new materials \*

The material expert benefits by being aware of the latest development in all these areas so he/she can focus on further improvements

**Care of Aluminum**

Routledge

A compilation of data collected and maintained

for many years as the property of a large aluminum company, which decided in 1997 to make it available to other engineers and materials specialists. In tabular form, presents data on the tensile and creep properties of eight species of wrought alloys and five species of cast alloys in the various shapes used in applications. Then looks at the fatigue data for several alloys under a range of conditions and loads. The data represent the typical or average findings, and though

some were developed years ago, the collection is the largest and most detailed available. There is no index.

### **Aluminum Foil**

Comprehensive information for the American aluminium industry Collective effort of 53 recognized experts on aluminium and aluminium alloys Joint venture by world renowned authorities-the Aluminium Association Inc. and American Society for Metals. The completely updated source of information on aluminium

industry as a whole rather than its individual contributors. this book is an opportunity to gain from The knowledge of the experts working for prestigious companies such as Alcoa, Reynolds Metals Co., Alcan International Ltd., Kaiser Aluminium & Chemical Corp., Martin Marietta Laboratories and Anaconda Aluminium Co. It took four years of diligent work to complete this comprehensive successor to the classic volume, Aluminium, published by ASM in 1967.

Contents: Properties of Pure Aluminum  
Constitution of Alloys  
Microstructure of Alloys  
Work Hardening  
Recovery, Recrystallization and Growth  
Metallurgy of Heat Treatment and General Principles of Precipitation Hardening  
Effects of Alloying Elements and Impurities on Properties  
Corrosion Behaviour  
Properties of Commercial Casting Alloys  
Properties of Commercial Wrought Alloys  
Aluminum Powder and Powder Metallurgy Products.

### Aluminium

Features the Aluminum Association, the association for U.S. producers of primary aluminum, recyclers and semi-fabricated aluminum products. Includes information on the Association's membership requirements, publications, and upcoming events. Provides access to industry news and

statistics. Describes technical, environmental, and safety and health programs offered. Posts contact information for the headquarters in Washington, D.C., via telephone number and e-mail.

*Questions and Answers about Aluminum and Energy Use...*

**Aluminum with Food and Chemicals**  
Aluminum Can Recycling Centers

Aluminum and Its Alloys  
Energy Conservation and the Aluminum Industry  
Aluminum Prices, 1974-75

*The Handbook of Advanced Materials*  
*Care of Aluminum*

**Aluminum Alloys in Water Storage and Distribution**

Directory of National Trade Associations

The Story of Aluminium  
Architectural Aluminum Report