

*Pira packaging guide series*

# METAL PACKAGING

## An Introduction

**Bev Page**



Bev Page

METAL PACKAGING An intro

THU  
8 HSP

6883

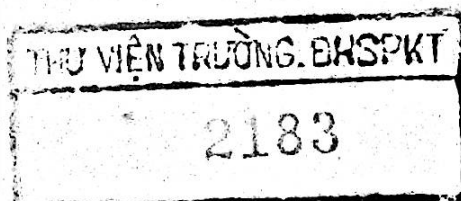
M58  
200



H8  
P132  
A Pira International packaging guide

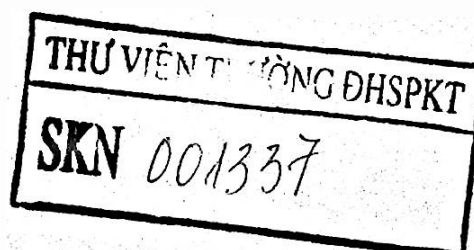
# Metal Packaging – an introduction

Bev Page



Pira International Ltd  
Randalls Road  
Leatherhead  
Surrey  
KT22 7RU  
UK

Tel: +44 (0) 1372 802080  
Fax: +44 (0) 1372 802079  
E-mail: [publications@pira.co.uk](mailto:publications@pira.co.uk)  
[www.piranet.com](http://www.piranet.com)



# Contents

<b>Chapter 1</b>	<b>Introduction to the light metal packaging manufacturing industry</b>	<b>1</b>
	Describes the range of light metal packaging, its markets, competitors and special performance properties. Includes a brief overview of how the industry itself is organised and its major suppliers and customers, by type.	
1.1	Range of light metal packaging products	1
1.2	Markets for light metal packaging	1
1.3	Competitive materials and products	3
1.4	The special properties of metal for packaging	4
1.5	Organisation of the light metal packaging industry	5
<b>Chapter 2</b>	<b>Types of metal containers, markets served and package/service performance requirements</b>	<b>7</b>
	Describes the main types of metal containers in common use together with the market sectors served by each of the can/closure formats. Specific performance requirements are given for each sector; these are in terms of technical performance of the package and the service required from the package supplier (and its material suppliers).	
2.1	Types of metal containers and closures in common use	7
2.2	Market sectors served	8
2.3	Performance requirements common to all metal packages	14
2.4	Additional performance requirements for containers and closures with special duties	19
2.5	Service required by the can-maker and the upstream material suppliers	23
<b>Chapter 3</b>	<b>Light metal package development and how it is driven</b>	<b>25</b>
	Describes the different ways in which the product development process is driven and what effects both large and small companies may have on this. It also reviews the roles that fillers, retailers, consumer organisations, materials suppliers and research organisations have in this process.	
3.1	How metal packaging development is driven	25
3.2	Influence of company size on metal packaging development	28
3.3	Role of retailers and consumer organisations in metal packaging development	29
3.4	Role of research organisations in metal packaging development	30
3.5	Role of materials and machinery suppliers in metal packaging development	30
3.6	The development of metal packaging – some important lessons based on practical experiences	31
<b>Chapter 4</b>	<b>Materials of construction</b>	<b>33</b>
	Describes the relevant properties of steel (tin plate and tin-free steel) and aluminium used for making rigid and semi-rigid containers, referring to the specific metal manufacturing and finishing processes only when necessary.	
4.1	Steel for packaging	33
4.2	Aluminium for packaging	39