

Retort Pouches

2015 to 2019

Section I:

Introduction

- A. Retort pouch
- B. Study organization
- C. Geographic regions
- D. Methodology and organization
- E. Conventions

Section II:

Executive Summary

- A. Technology
 - 1. Innovations
 - 2. Competition
 - 3. Long term technology
- B. Economic and environmental impact
 - 1. Economic impact
 - 2. Environmental impact
- C. Market forces
 - 1. Competition
 - 2. Consumer attitudes
 - 3. Supply chain experience
 - 4. Product quality
 - 5. Shelf stability
 - 6. User convenience and time savings
 - 7. Product safety
 - 8. Economics
- D. Market statistics and projections
 - 1. Global market
 - 2. Pet food
 - 3. Food
 - 4. Geographic regions
 - 5. Aluminum foil versus transparent barrier materials
 - 6. Institutional versus retail consumption

Section III:

Technology

- A. Origin
- B. Regulations
- C. Sterilization (retorting)
 - 1. Sterilization process
 - 2. Sterilization equipment
 - 3. Pouch production volume
 - 4. Sterilization cycle
 - 5. Shaka process
 - 6. Microwave assisted thermal sterilization (MATS)
 - 7. Pressure Assisted Thermal Sterilization (P.A.T.S.)
 - 8. Suppliers
- D. Pouch design
 - 1. Pouch structures
 - 2. Pouch features
 - 3. Folding carton and retort pouch combination
 - 4. Barrier materials
 - 5. Seal layer materials
 - 6. Other structural layer materials
 - 7. Inks and adhesives
 - 8. Suppliers of retort pouches
- E. Competition
 - 1. Trays
 - 2. Retort Cartons
 - 3. Chubs
- F. Contract packaging
- G. Equipment
 - 1. Laminators
 - 2. Pouch machines
 - 3. Fill/sealers
 - 4. Thermoform/fill/seal
 - 5. Horizontal form/fill/seal (h/f/f/s)
 - 6. Vertical form/fill/seal (v/f/f/s)
 - 7. Pouch handling
- H. Pouch testing
 - 1. Seal strength
 - 2. Leak resistance
 - 3. Lamination strength
 - 4. Barrier property testing

Section IV:

Economic and Environmental Impact

- A. Case 1: Retort pouch manufacturing
 - 1. Assumptions
 - 2. Economic results
- B. Case 2: Retort pouch filling
 - 1. Assumptions
 - 2. Economic results
- C. Case 3: Polymer tray manufacturing
 - 1. Assumptions
 - 2. Economic results
- D. Case 4: Diecut lid manufacturing
 - 1. Assumptions
 - 2. Economic results
- E. Case 5: Polymer tray filling
 - 1. Assumptions
 - 2. Economic results
- F. Case 6: Economic summary
- G. Case 7: Retort pouch LCA
 - 1. Energy
 - 2. Greenhouse gas releases
 - 3. Water
 - 4. End-of-life
- H. Case 8: Polymer tray LCA
 - 1. Energy
 - 2. Greenhouse gas releases
 - 3. Water
 - 4. End-of-life
- I. Case 9: Environmental comparison

Section V:

Market Trends/Projections

- A. Applications
- B. Drivers and trends
 - 1. Reduced heat exposure
 - 2. Product quality
 - 3. Shelf stability
 - 4. Differentiation

- 5. Economics
- 6. Consumer trends
- 7. Competition
- 8. Product safety
- 9. Environmental impact
- 10. Infrastructure
- C. Global market volume
- D. Global market value
- E. Volume for pet food segmented by end-use
 - 1. Cat food
 - 2. Dog food
- F. Value for pet food segmented by end-use
- G. Volume for food segmented by end-use
 - 1. Baby foods
 - 2. Healthcare
 - 3. Meat and poultry
 - 4. Meals Ready to Eat (MRE)
 - 5. Rice
 - 6. Sauces
 - 7. Soup, chili, and stew
 - 8. Tuna
 - 9. Vegetables
 - 10. Other
- H. Value for food segmented by end-use
- I. Volume for pet food segmented by geographic region
- J. Value for pet food segmented by geographic region
- K. Volume for food segmented by geographic region
- L. Value for food segmented by geographic region
- M. Global volume segmented by geographic region
 - 1. Asia
 - 2. China
 - 3. Europe
 - 4. Japan
 - 5. North America
 - 6. Rest of world (ROW)
- N. Global value segmented by geographic region
- O. Volume in Asia segmented by end-use
 - 1. Food
 - 2. Pet food

- P. Volume in China segmented by end-use
 - 1. Food
 - 2. Pet food
- Q. Volume in Europe segmented by end-use
 - 1. Food
 - 2. Pet food
- R. Volume in Japan by segmented end-use
 - 1. Food
 - 2. Pet food
- S. Volume in North America segmented by end-use
 - 1. Food
 - 2. Pet food
- T. Volume in ROW segmented by end-use
 - 1. Food
 - 2. Pet food
- U. Global volume segmented by institutional and retail use
- V. Global volume segmented by pouch design
- W. Global volume segmented by barrier material
 - 1. Aluminum foil
 - 2. Transparent barrier films
 - 3. Projection
- X. Global volume segmented by package structure
 - 1. Coextrusion
 - 2. Four-layer lamination
 - 3. Three-layer lamination
 - 4. Other
 - 5. Projection
- Y. Global volume segmented by fitment usage
- Z. Global volume segmented by reclosable zipper usage
- AA. Global volume segmented by filling process
 - 1. Fill/seal
 - 2. Thermoform/fill/seal (t/f/f/s)
 - 3. Horizontal form/fill/seal (h/f/f/s)
 - 4. Vertical form/fill/seal (v/f/f/s)
 - 5. Projection
- AB. Retort pouch market printed versus unprinted
 - 1. Printed pouches
 - 2. Unprinted pouches
 - 3. Projection

**Section VI:
Producer Profiles**

**Section VII:
Supplier Profiles**

**Section VIII:
Contract Packagers**