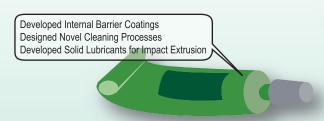
mantis associates, inc. examples of PHARMACEUTICAL e3 PACKAGING EXPERIENCE

Incorporated Novel Binders
Developed Low Release Parenterals
Development of Natural Ingredients
Wet,Dry Granulation Process Development



Improved Natural and Synthetic Gel Formulation
Developed Sealing Processes
Developed Drug-safe Printing Inks

Developed and Specified:

- Polymer/Fabric Laminates
- Antistatic AgentsPigments
- •Absorbents
- Semi-permeable Polymers
- •Release Coatings
- Non-wovens

STERILE WOUND PRESSING

Novel Low Temperature Adhesive Systems Designed Novel Zero/Low Release Polymers Selected Drug-safe Inking Systems Developed



Patented Novel Valve Designs
Improved Elastomer Formulations and Processing
Improved Stem Materials
Assembly and Testing Improvements
Performance Improvements

Low/Zero Extractables Internal Coatings Developed Low Surface Energy Coatings Developed Designed Drug-safe Cleaning Processes Improved Anodizing and Other Surface Treatments Selected Alternate Alloys and Materials

Low Extractable Rubber Formulations Developed Eliminated Talc in Rubber Processing Ferrule Cleaning and Treatment Processes Conceived

Development of Low Extractable Plastics
Low Surface Energy Internal Coatings Developed
Blow and Injection Molding Process Developed
Drug-safe Release Agents Incorporated
Protective Agents Formulated

Performed Assembly Troubleshooting Specified Materials, Design, and Processing Improvements Improved Materials/Drug Compatibility

Alternate Plastics Formulations Implemented Improved Molding Process Anti-microbial Formulations and Coatings Conceived

Reformulated Piston to Eliminate Drug Contamination Reformulated Ruber to Avoid Bonding Patented Specialized Lubricant

Developed Barrel Plastics to Protect Drug Integrity