

Recommendations by the Quality Task Group (30): Packaging Systems – Part 2: Hard Packaging

When it came to processing medical devices little attention was paid for a long time to sterile supply packing. The psychological sense of security conferred by the visible presence of packaging was more important than the actual requirements and the underlying process. Neither the correct choice of packaging nor the consequences of inadequate packaging warranted much reflection.

The Quality Task Group, a working group composed of experts, is now dealing with this topic. Its goal is to give users an easily understood guide, presented in tabulated form, to enable them to assign the different types of packaging to their respective standards as well as to evaluate them in economic terms.

Safety aspects and user friendliness are also taken into consideration. Particular attention is also paid to validation. This is because in view of the markedly more stringent quality requirements (see ISO 17664), anywhere in the world, each manufacturer of medical devices, each hospital as well as anyone dealing with medical device packaging and sterilisation must focus in detail on this aspect of quality management.

In the context of standard ISO 11607, validation is understood to mean “the provision of documented proof that all quality requirements addressed to the process are fulfilled and that the process repeatedly produces devices that meet the given specifications”.

As far as the packing process is concerned, this means that the process must be reproducible. Processes that unfold differently on each occasion do not lend themselves to validation.

Binding procedural directives and standard operating procedures, as stipulated by a quality management system, as well as specialist personnel who undergo regular training are a prerequisite for validable processes.

These recommendations are divided into three parts:

Part 1: Soft Packaging Systems (published in *Central Service 2/2003*)

Part 2: Hard Packaging Systems and

Part 3: Comparison of the Systems

By consulting the tables, the user should be able to select the appropriate system

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Hard Packaging			
Packaging material			
Competent standards	DIN	EN 868-1	EN 868-8
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	ISO	11607 ¹	
Packing technique			
	manual		X ³
	automated		
Validation			
Reproducible			yes
Validable			yes
Application technology			
Competent standards	DIN	58953-9	
	EN	ISO 17664 (draft)	
	ISO	11607 ¹	
Sterilisation process			
Steam			yes
Formaldehyde			no
Ethylene oxide			yes ²
Gas plasma			yes ²
Hot air			no
Liquid media			no
Economic efficiency			
Material investment			high
equipment investment			none ⁴
Labour			low ⁴

Table 2: Hard packaging systems

¹ contains no specific information for the operator

² the operating manual produced by the container manufacturer giving a list of the processes permitted must be observed

³ this is determined by the design (guided control), no deviation possible

⁴ depends of the type of processing

Classifying Medical Devices before Processing (as of October 2003)

based on the Recommendation (by the RKI and BfArM) *Hygienic Requirements for Processing of Medical Devices* (published in: *Bundesgesundheitsbl.* 2001; 44: 1115–1126.)



