

**DCMA**  
Defense Contract Management Agency



**DCMA**  
Defense Contract Management Agency

**DCMA**  
Defense Contract Management Agency

# Military Preservation

Prepared By:

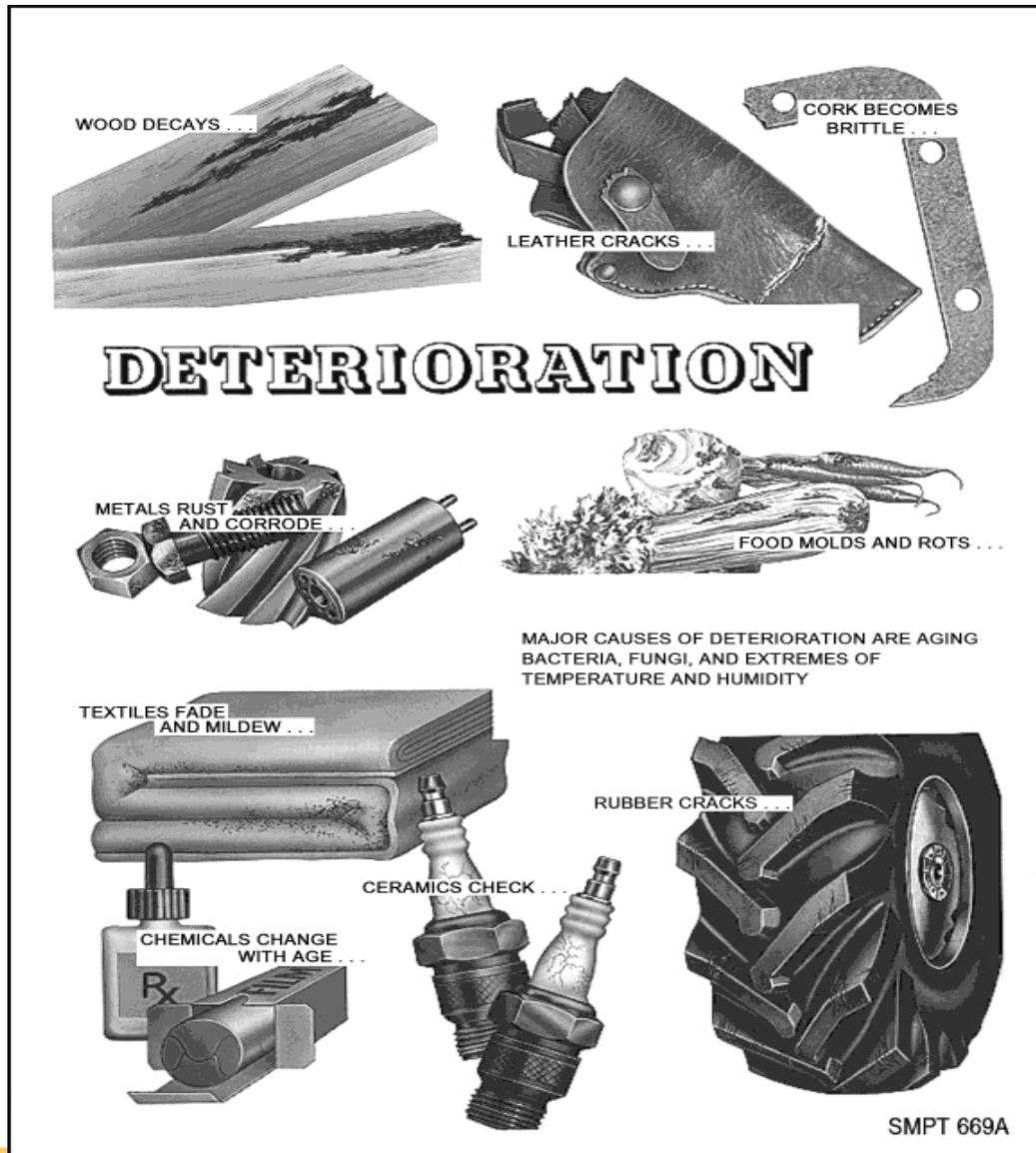
**Ted Hollanders**

**Packaging FSR**

**Date 8 May 2002**

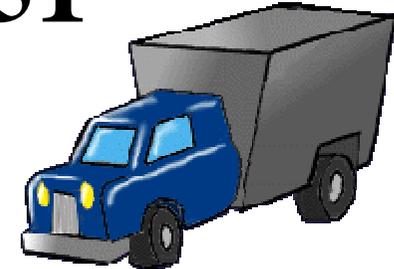
Revision 1, Date 29 April 2004

# Why do we need preservation?



# Commercial Packaging

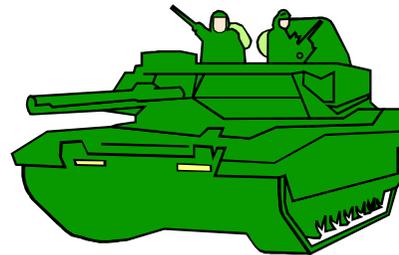
## ASTM D-3951



- Items intended for immediate use
- Items for not mission-capable supply
- Items intended for depot operational consumption
- Small parcel shipments (CONUS), not-for-stock
- Direct vendor deliveries (CONUS)

# Military Preservation

MIL-STD-2073 describes the various military methods of preservation required to protect material against environmentally induced corrosion and deterioration, physical and mechanical damage, and other forms of degradation during storage, multiple handling, and shipment associated with the military distribution system.



## FIVE (5) BASIC METHODS OF MILITARY PRESERVATION

NEW METHOD	HEADING	OLD METHOD
10	PHYSICAL PROTECTION	III
20	PRESERVATIVE COATING ONLY	I
30	WATERPROOF PROTECTION	IC
40	WATERVAPORPROOF PROTECTION	IA
50	WATERVAPORPROOF PROTECTION WITH DESICCANT	II

\* Submethods not converted to new method codes:

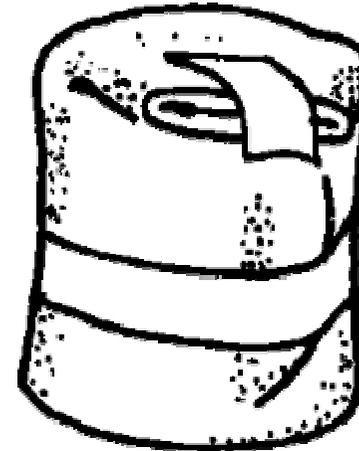
- IA-6 Rigid Container (items immersed in preservative, oil type, sealed)
- IA-15 Container Bag, Sealed
- IC-4 Waterproof, Rigid Container other than All Metal, sealed.
- IC-7 Blister pack, Greaseproof-Waterproof Single Compartment, Individually sealed.
- IC-9 Skin Pack, Greaseproof-Waterproof, Vacuum Formed, Sealed
- IC-10 Skin Pack, Waterproof, Vacuum Formed, Sealed
- Ile Container, Bag, Heat Sealed

# Method 10

*Protection from Physical Damage and Mechanical Malfunction*

## Types of Items to be Preserved Method 10:

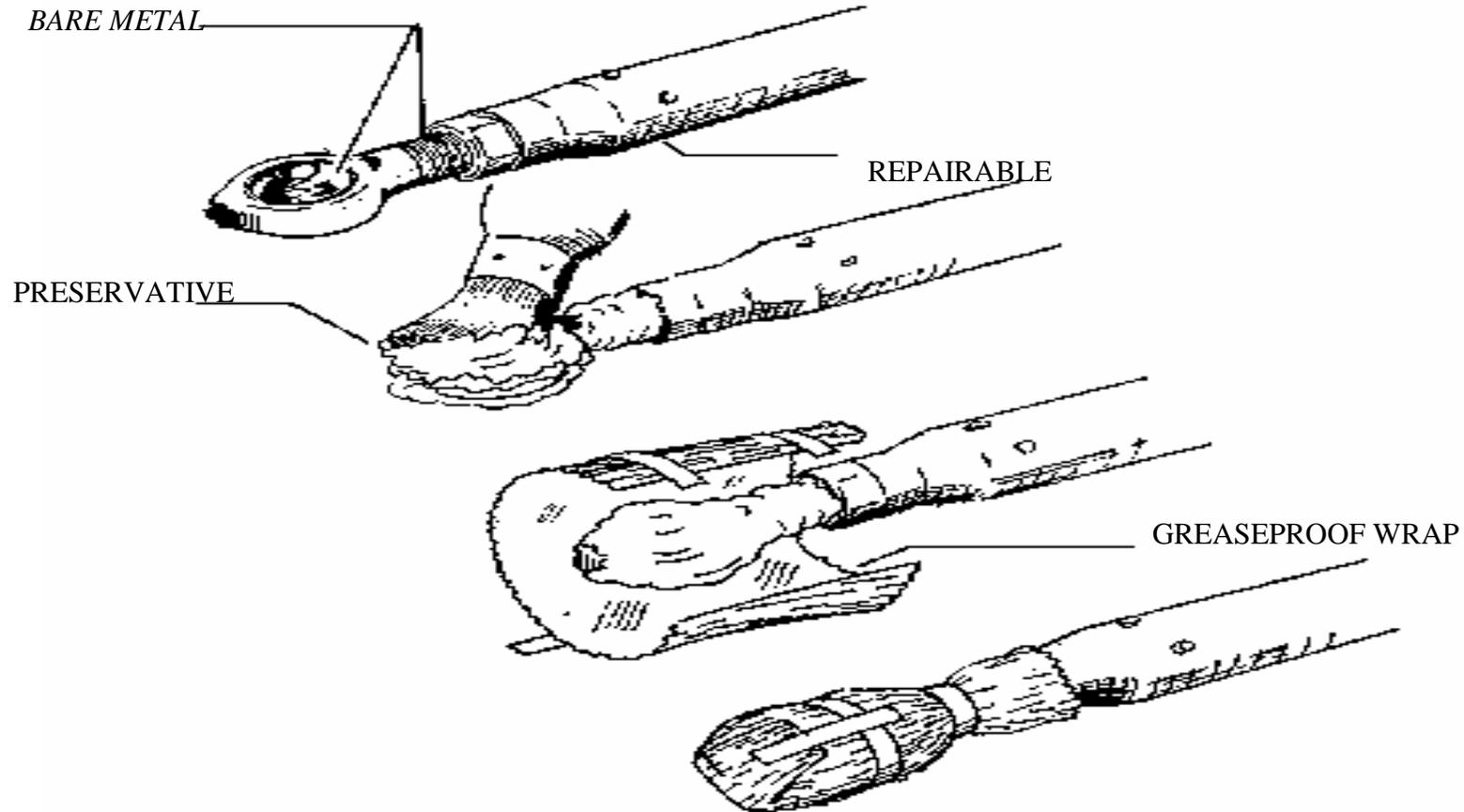
Plastic, Ceramics, Glass, Painted Metal, Finished Wood Products.



**Unpreserved** items shall be provided protection from physical damage and mechanical malfunction. Cushioning materials, dunnage, blocking and bracing shall be applied as required to protect the items and the enclosing media and restrict the movement of the item within the container.

## Method 20

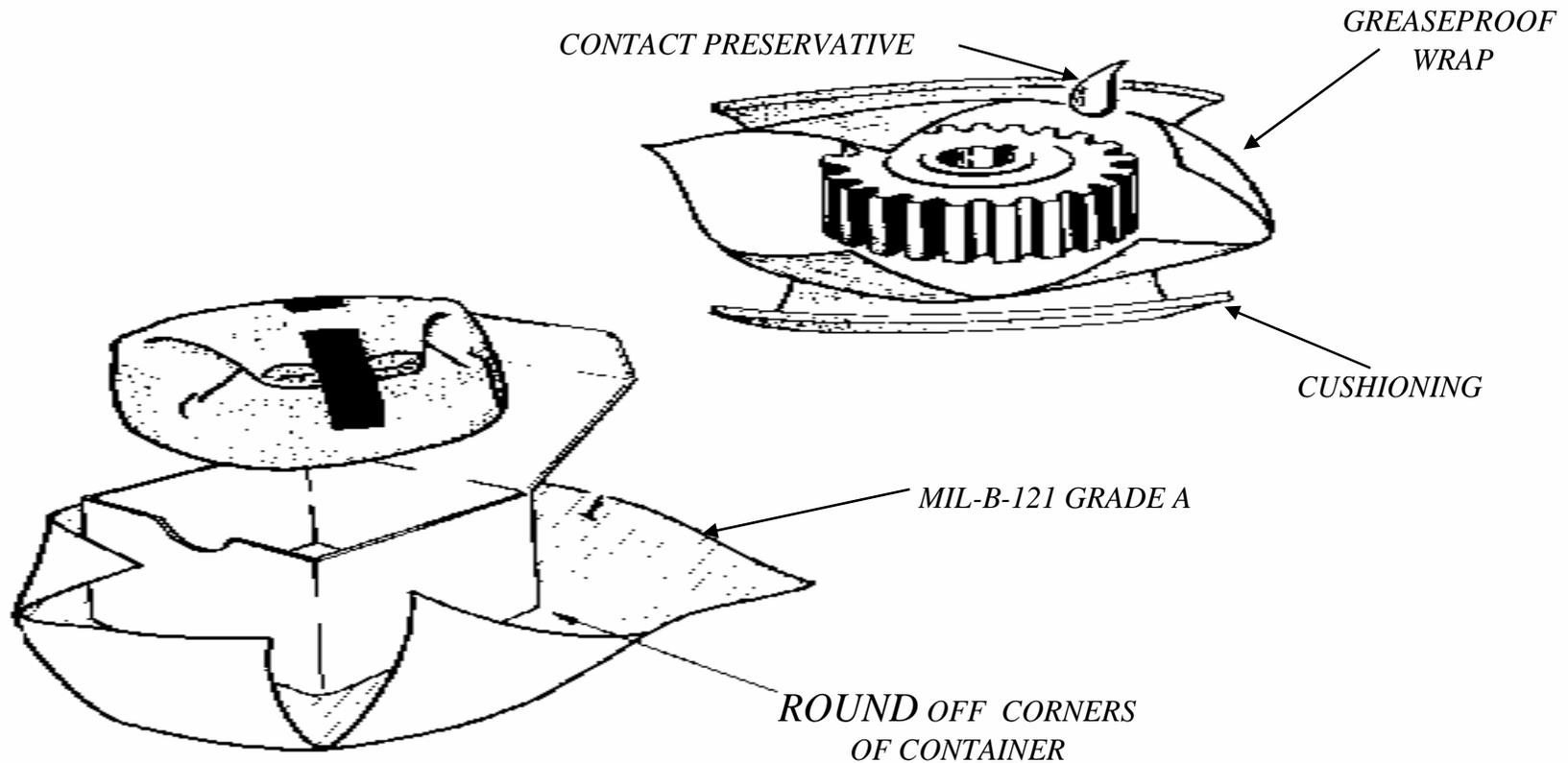
*Preservative coating only (with greaseproof wrap, as required)*



**PRESERVED METHOD 20  
READY FOR PACKING**

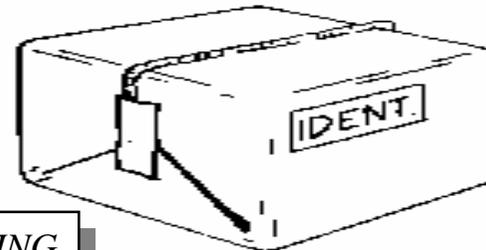
## Method 32

*Container, waterproof bag, sealed*



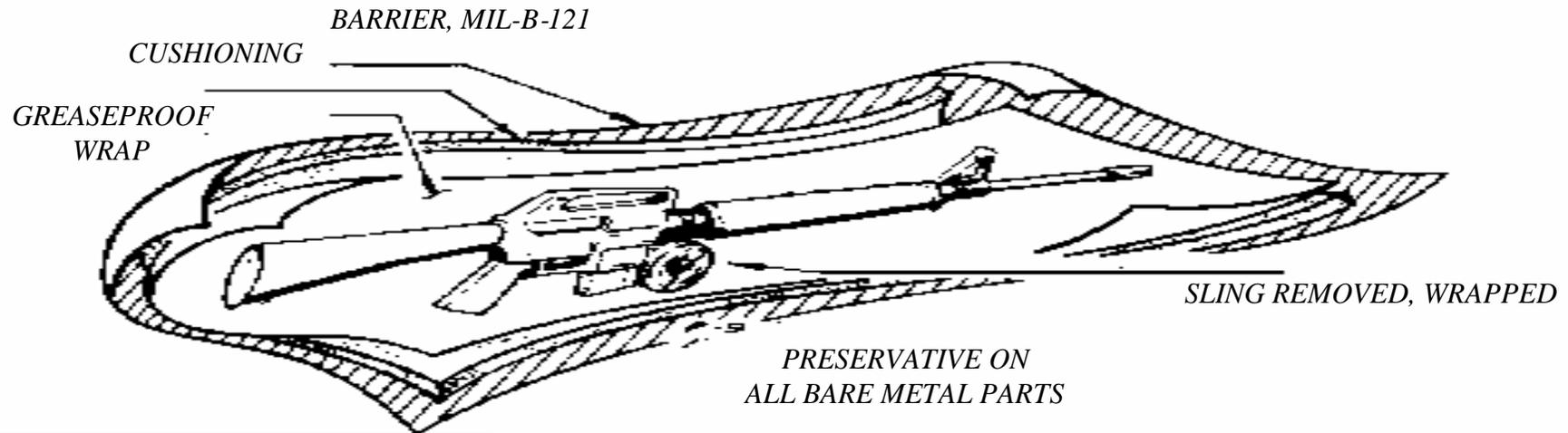
*BARRIER WRAPS OR BAGS SHOULD NEVER BE USED AS A STORAGE OR SHIPPING CONTAINER. ALWAYS OVERPACK IN THE APPROPRIATE CONTAINER.*

*READY FOR PACKING*

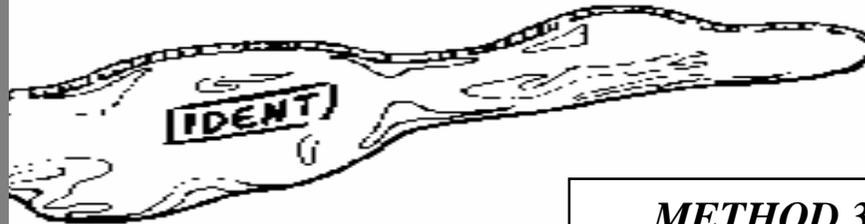


# Method 33

*Greaseproof-Waterproof bag, sealed*



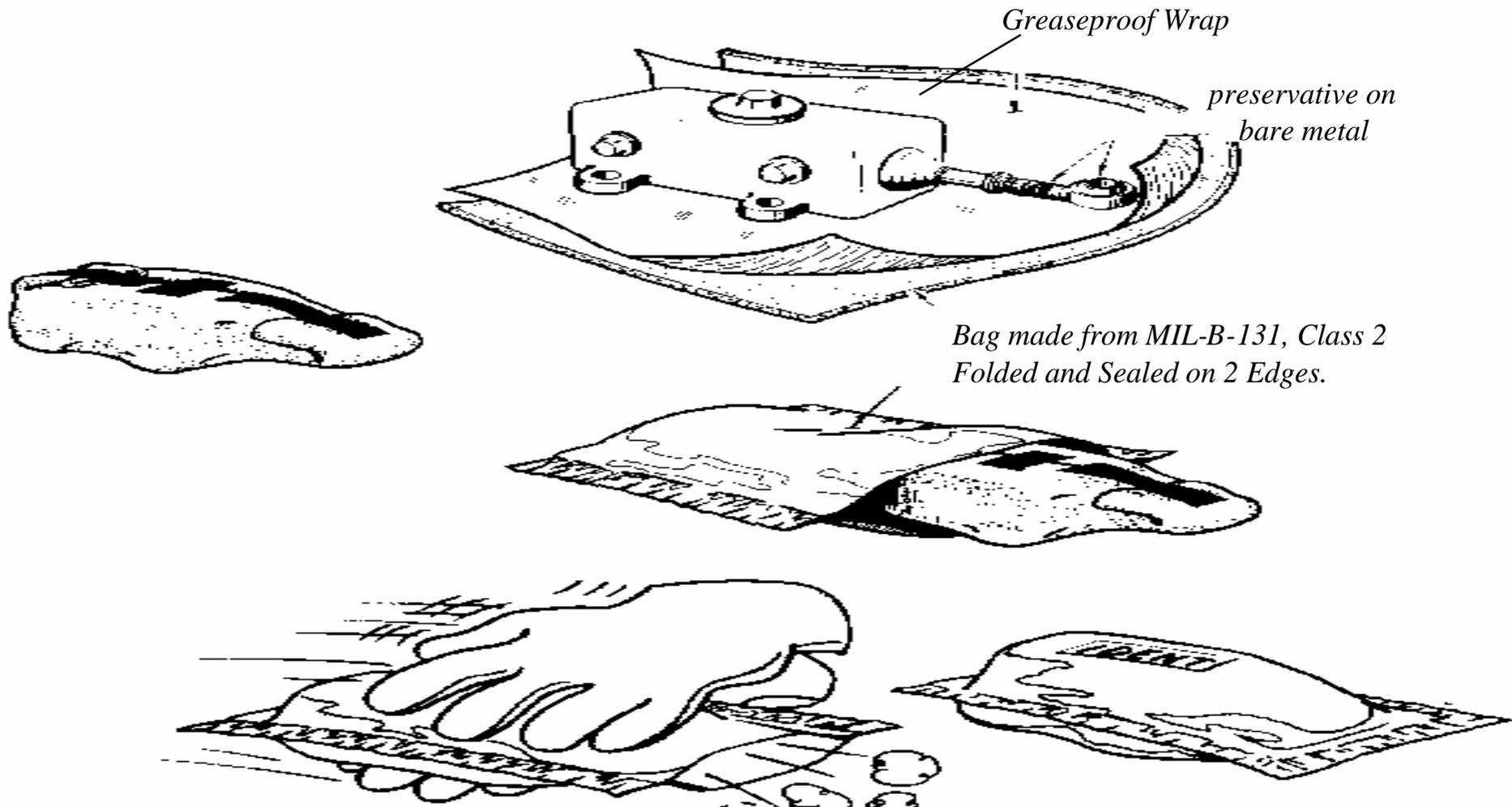
*BARRIER WRAPS OR BAGS SHOULD NEVER BE USED AS A STORAGE OR SHIPPING CONTAINER. ALWAYS OVERPACK IN THE APPROPRIATE CONTAINER.*



**METHOD 33  
PRESERVED ITEM**

# Method 41

*Watervaporproof bag, sealed*



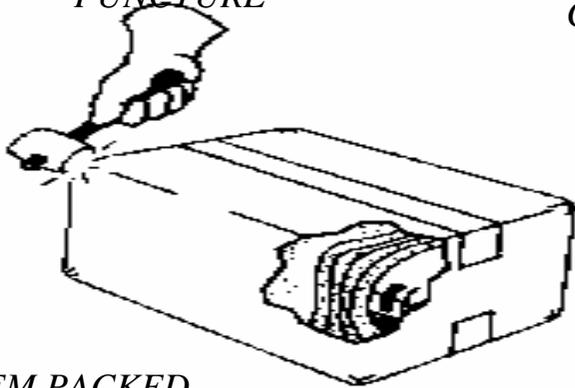
BARRIER WRAPS OR BAGS SHOULD NEVER BE USED AS A STORAGE OR SHIPPING CONTAINER. ALWAYS OVERPACK IN THE APPROPRIATE CONTAINER.

READY FOR PACKING

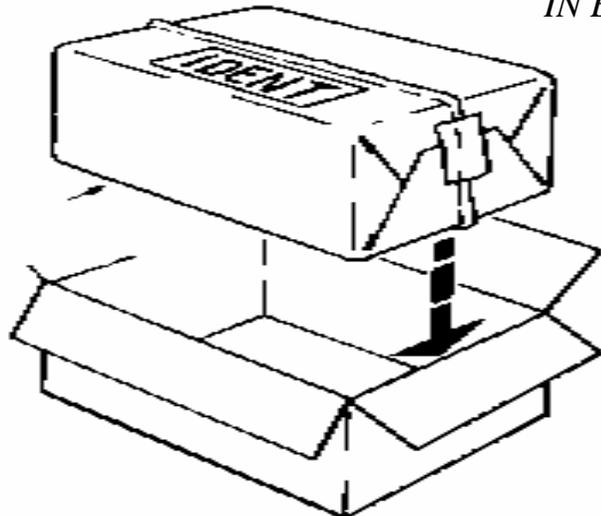
## Method 42

*Container, Waterproof bag, sealed, Container*

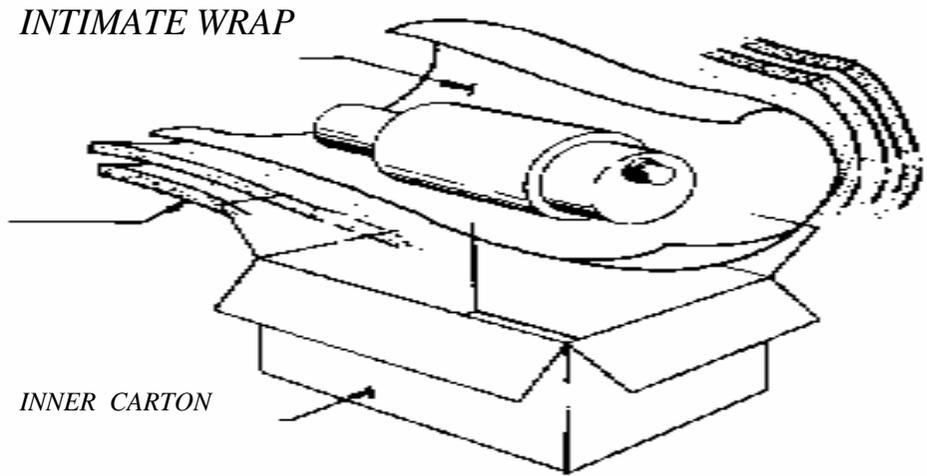
*CORNER FLATTENED  
TO PREVENT BAG  
PUNCTURE*



*ITEM PACKED  
TIGHT*

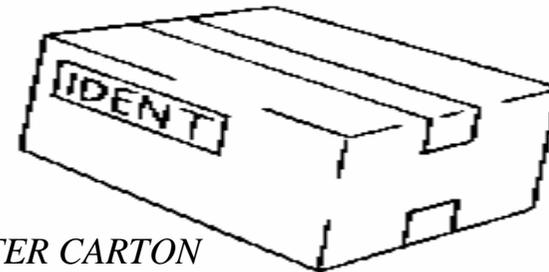


*CUSHIONING*



*INNER CARTON*

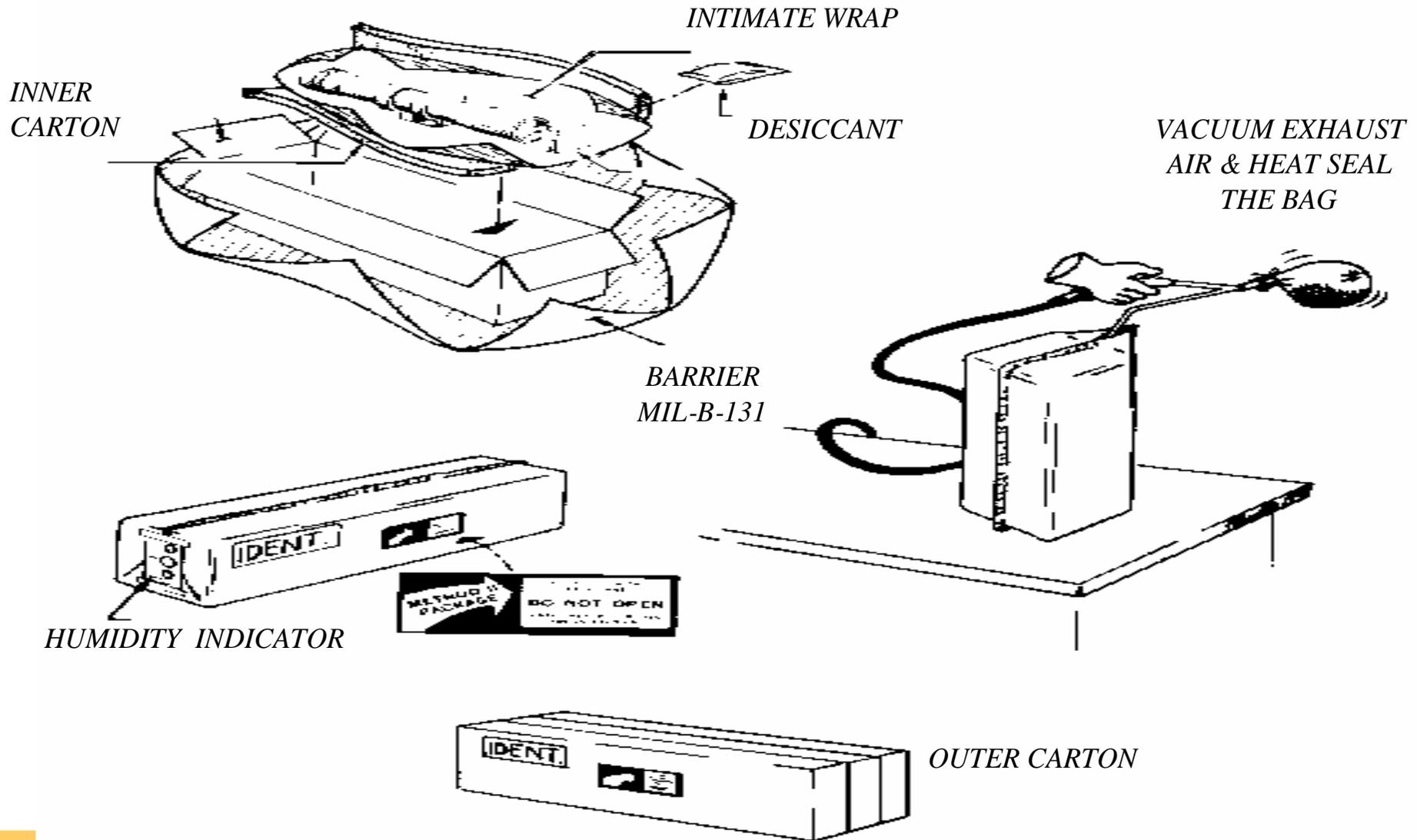
*INNER CARTON PLACED  
IN BAG, MIL-B-131, CLASS 2,  
HEAT SEALED AND  
IDENTIFIED*



*OUTER CARTON  
SEALED AND IDENTIFIED*

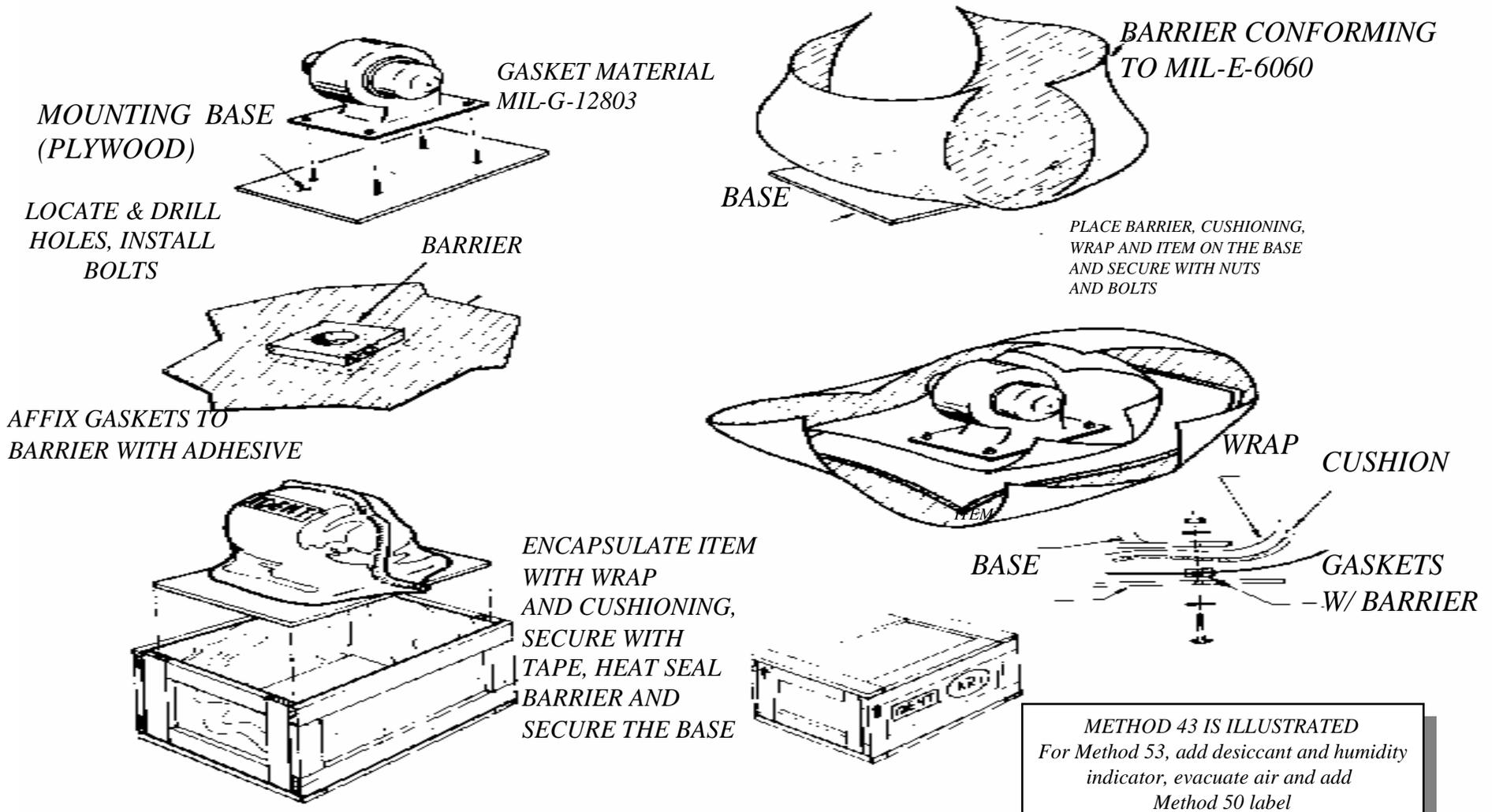
## Method 52

*Container, Waterproof bag, sealed, Container (with desiccant)*



# Method 43 / 53

*Floating, Watervaporproof bag, sealed  
(Method 43 without desiccant, Method 53 with desiccant)*



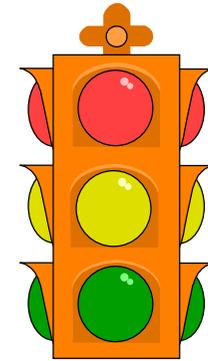
# Quality Assurance Checks

- **Quality Assurance**
  - **Packaging Inspections**
    - **Preservation**
    - **Packing**
    - **Cleaning**
    - **Drying**



# Preservation Inspections

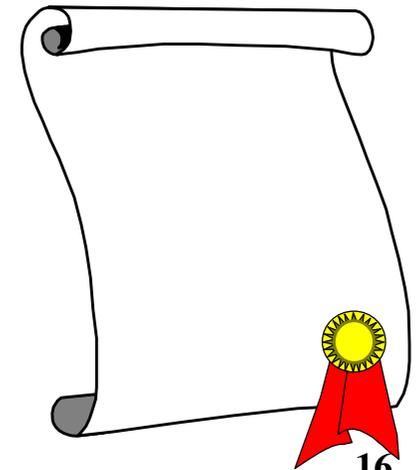
- Are Mandatory ( Appendix G)
  - G.4.1 Visual Preservation(Table G.1)
  - G.4.2 Leak Test (Table G.2)
  - G.4.3 Heat-Sealed test (Table G.2)
  - G.5.1 Examination Procedures



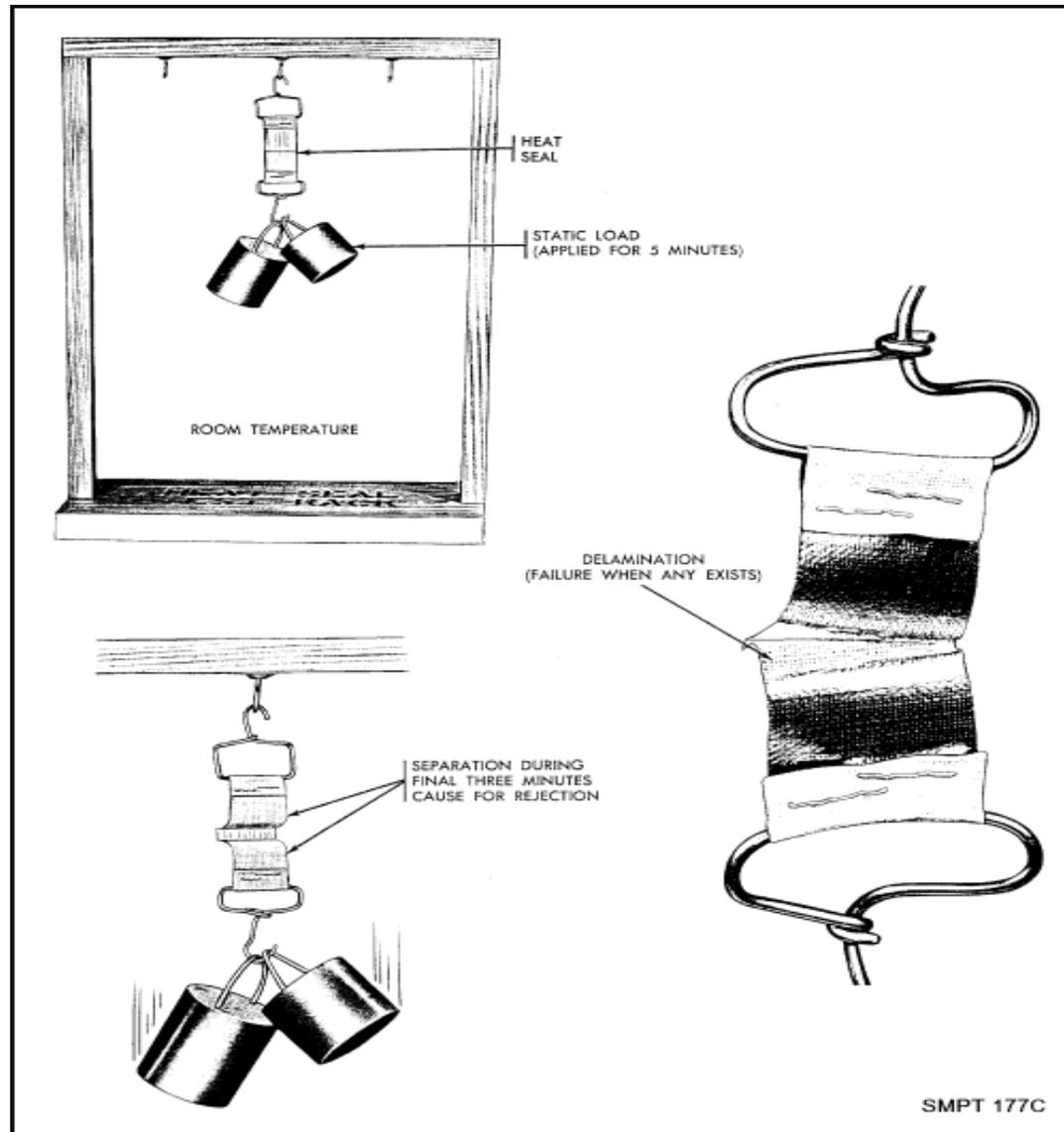
# MIL-STD 2073-1D, Appendix G

## Table G.II

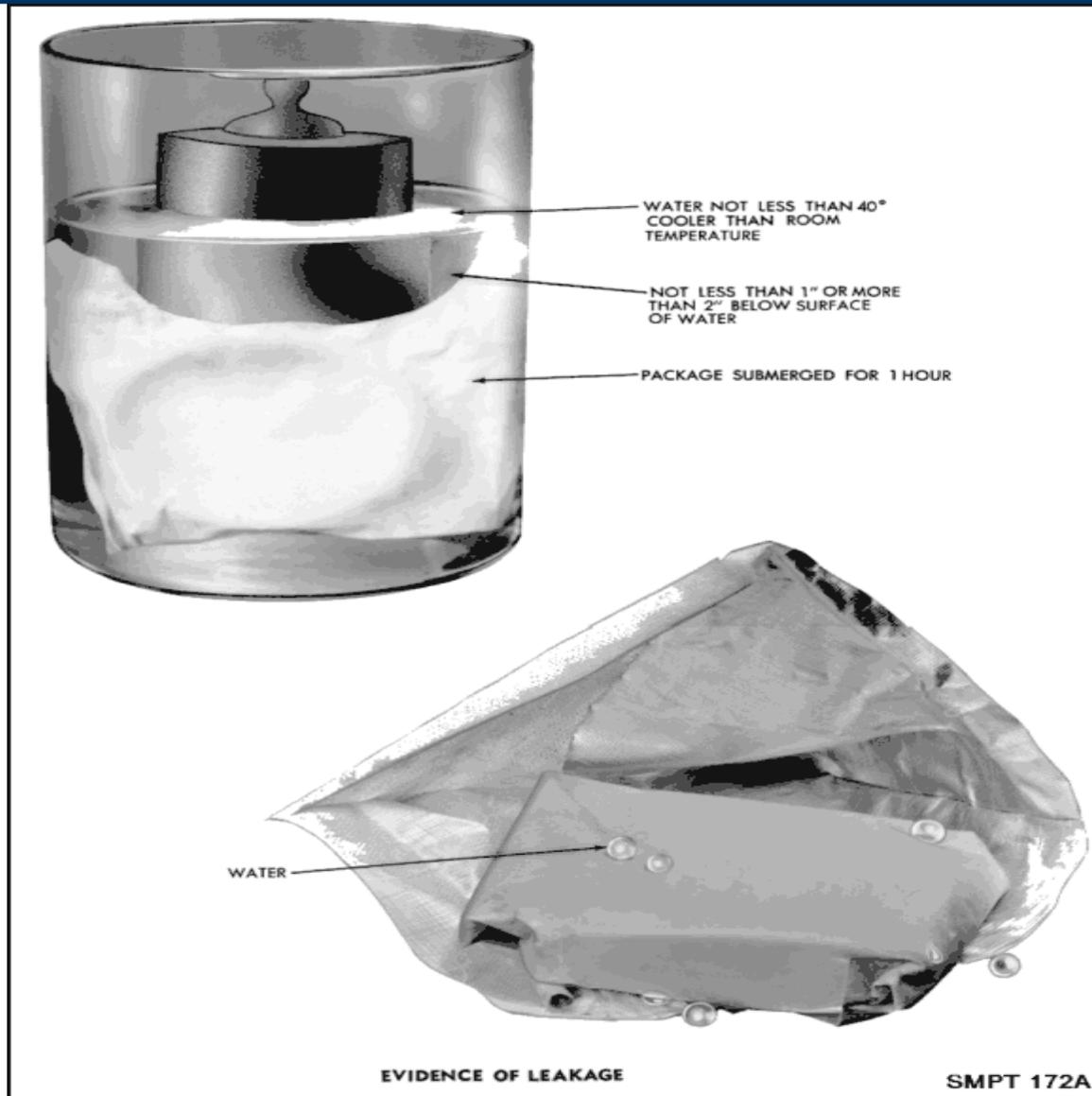
Method / Submethod	Leak Test	Heat-seal
31	Required	Required
32	Required	Required
33	Required	Required
41	Required	Required
42	Required	Required
44	Required	
45	Required	
51	Required	Required
52	Required	Required
53	Required	Required
54	Required	
55	Required	



## Heat-Sealed Seam Test



## Submersion



# Vacuum Retention

