



COMMONWEALTH GOVERNMENT

AUSTRALIAN DEFENCE STANDARD

DEF(AUST)1000C

ADF PACKAGING;

STANDARD

PART 5: MARKING OF PACKAGES

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AUSTRALIAN DEFENCE STANDARD

DEF(AUST)1000C

ADF PACKAGING

PART 5 : MARKING OF PACKAGES

JULY, 2000

Prepared by the ADF Packaging Committee under the Authority of the Defence Standardisation Coordination Group.

Specific inquiries regarding the application of this Standard to Requests for Tender or contracts should be addressed to the Procurement Authority named in the Request for Tender, or to the Quality Assurance Authority named in the contract, as appropriate.

This Standard is mandatory for use by the RAN, Australian Army and RAAF, and Contractors to the ADF

This Standard supersedes DEF(AUST)1000B PART 5 : Marking of Packages.

Included in this Standard is a data sheet for the Broad Arrow Symbol, from DEF(AUST) 5047: Identification Marking of Stores and Equipment. This document is sponsored and maintained by Army Standardisation Cell.

ANNEX H implements the requirements of QSTAG 1154: Standardised Identification and Transport of Military Cargo within the ABCA Armies.

WARNING

This Standard may call for use of substances and test procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and in no way absolves either the supplier or user from statutory obligations relating to health and safety at any stage of manufacture or use.

DEF(AUST)1000C is issued in 20 parts, and each part is sub-divided into Sections. The 20 parts are:

PART 1:	General Information
PART 2:	Packaging Requirements
PART 3:	Packaging Practices and Materials
PART 4:	Standard Packaging Test Procedures
PART 5:	Marking of Packages
PART 6:	Packing of Dangerous Goods (Except Dangerous Goods Class 1); Packaging Requirements and Packaging Mediums
PART 7:	Packaging for Materiel Susceptible to Damage by Electrostatic Discharge
PART 8:	Defective Packaging Reporting System
PART 9:	Requirements for Reusable Containers
PART 10:	Australian Quarantine Inspection Service (AQIS) Requirements
PART 11:	Unitisation
PART 12:	Bar Code Symbolology
PART 13:	Packaging Material Catalogue
PART 14:	Minimum Packaging Specifications of Commercial Items
PART 15:	Packaging Specifications and Classification Systems
PART 16:	Creative Brief Template
PART 17:	Packaging ILS Checklist

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PART 18:	Life Cycle Analysis	
PART 19:	Caching	
PART 20:	Techniques for Deployment, Packaging and Storage for Tropical Conditions.	

Two or more PARTS may apply to any one packaging requirement and it is essential that all PARTS be considered and used where appropriate.

This PART of the Defence Standard concerns the marking of packages and specifies the general requirements to be observed in the marking of Defence materiel.

This Standard does not apply to the packaging of ammunition and explosives (for packaging information refer to Joint Ammunition Logistic Organisation [JALO]).

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PART 5 - MARKING OF PACKAGES

SECTION A - INTRODUCTION

1. FOREWORD

- 1.1 This SECTION is intended to standardise package markings and marking procedures for the Defence Services.
- 1.2 Although PART 5 is designed to meet most contingencies it may be necessary for each Service to issue supplementary instructions to meet special requirements.

2. SCOPE

- 2.1 This Standard provides the requirements for the uniform marking of packaged stores and equipment's.

3. APPLICABLE DOCUMENTS

- 3.1 Reference may be necessary to the latest issue of the following documents.

Australian Department of Defence

Australian Defence Force
Food Specification.

US Department of Defence

MIL-STD-129 - Marking for Shipment and Storage

Standards Australia

AS 3711.9 - Freight Containers, Coding, Identification and Marking

AS 2581 - Pressure Sensitive Adhesive Plastics Labels For Permanent Use (General Purpose)

AS 2700 - Colour Standards for General Purposes

AS 2852 - Packaging - Pictorial Marking for the Handling of Packages

Government Paint Committee (GPC)

GPC-I-26/3 - Latex Paint, flat or low gloss finish, exterior

Australia Post

Post Office Guide

4. DEFINITIONS

- 4.1 For the purpose of this Standard the following definitions shall apply:

Australian Standard Materiel Issue and Movement Priority System (AUSMIMPS). Establishes a standard system of priorities for demand, issue and movement of materiel throughout the supply system of the Australian Services. The system is detailed in individual Defence Instructions.

Australian Defence Services Cargo Recognition Mark (ASCRM). The national symbol, a stylized version of the Kangaroo, with additional Service Designator i.e., RAN, ARMY, RAAF.

NATO Stock Number (NSN). A number assigned by the National Codification Bureaux (NCB) to each approved item identification. It consists of the four digit NATO Supply Class (NSC) and the nine digit NATO Item Identification Number (NIIN).

e.g. NSC NIIN
 5210- 66- 037-4581
 NCB

Approved Item Name (AIN). The noun or noun phrase adopted by the Department of Defence which is used to describe an item of supply.

Method II Pack. A pack including a hermetically sealed container or a continuous barrier of material with a water vapour transmission rate below 2 grams per square metre per 24 hours. A desiccant is included within the barrier.

Multi Item Pack. A package containing a quantity of various items.

Outer Container. A container that forms the outer or ultimate receptacle, which holds, restrains or encloses the items to be stored or transported. The unit container may also be the outer container.

Primary Package. Also known as the unit package. It is the first tie, wrap or container applied to a single item, quantity or group of items of a single stock number packaged to constitute an identifiable package.

Unit Package. A container designed to hold the primary packaged items.

Unit Load. A number of stacked packages, bonded together to make them suitable for transport and storage as a unit. The term may also be used to describe a single large item.

5. REQUIREMENTS

5.1 General Requirements

- 5.1.1 Unless otherwise specified all materials, location and type of markings used shall conform to this Standard. Where no specification for marking materials is referenced, the materials shall conform to those used in normal commercial practice and approved by the appropriate Service Authority.
- 5.1.2 **Classified Items.** Classified items shall be packaged and marked in accordance with appropriate Service requirements. Markings, indicating the classified nature of the package contents, shall not appear on the outer container.
- 5.1.3 **Valuable, Sensitive and Security Items.** Items such as maps, watches, instruments, photographic equipment and similar items shall be marked in accordance with the relevant Service regulations. Markings, indicating the value, sensitivity or security of the package contents, shall not appear on the outer container.
- 5.1.4 **Drugs.** Packages shall be marked in accordance with Service regulations and as required by government regulation or statute. On packages containing narcotics, markings indicating the nature of the package shall not appear on the outer containers.
- 5.1.5 **Postal Consignment.** Packages consigned through Australia Post shall comply with the requirements of the regulations issued by Australia Post as contained in the Post Office Guide.

- 5.1.6 **Civil Aid and Philanthropic Organisations.** Packages originating from civil aid and philanthropic organisations required to be moved through Defence movement agencies shall be prepared for movement in accordance with this Standard. Additional markings aiding the efficiency of the organisations or agencies shall be permitted, providing the markings do not interfere with the movement of the consignment through Defence Services.
- 5.1.7 **Foodstuffs Markings.** Markings of foodstuffs shall conform to Australian Defence Force Food Specifications.
- 5.1.8 **Documentation Vouchers etc.** Unless otherwise specified all vouchers, release notes, packing notes, or other documentation shall be enclosed in a waterproof envelope manufactured from material conforming to DEF(AUST)1000, PART 3, SECTION H. The envelope shall be placed within a metal or plastics packing list/voucher protector and affixed to the last container in each consignment. The method and placement shall be on:
- a. **Wooden Boxes.** Nailed to the end of the box or the face and where practicable protected by the end cleats or side battens; the nail length shall not exceed the thickness of the box boards.
 - b. **Fibreboard/Metal Boxes.** Affixed to the end of the box with transparent self adhesive tape. No more than half of the tape width shall be on the envelope. The tape is to extend beyond the ends of the envelope by at least 30 mm.
 - c. **Drums and Cans.** To the container top/lid affixed as in b.
 - d. **Wire Crates and Bundles.** Tied with rot proofed, water proof twine or corrosion resistant wire.
 - e. **Gas Cylinders.** Within the valve cover or by tying with rot proofed, water proof twine to the cylinder neck.
- 5.1.9 **Marking of Freight Containers.** ISO Containers shall be marked in accordance with AS 3711.9. All other containers shall be marked in accordance with individual requirements.
- 5.1.10 **Bar Code Marking.**
- 5.1.10.1 This Standard provides information on the location of bar coding for various package types. It does not address the detailed information to be incorporated within the bar code as each Service requirement may vary. Bar code markings are to be applied and placed on containers as specified in ANNEX A. (Ammunition bar code markings have been standardised and the standards are contained in Appendix G, MIL-STD-129).
- 5.1.10.2 Prefixes and suffixes to the stock number, as well as spaces and dashes, will not be bar coded. The Human Readable Interpretation (HRI) will be an exact interpretation of the bar code data and will not contain spaces or dashes. HRI will be located below the bar code markings or above the bar code markings.
- 5.1.11 **Location of Markings.** Markings on primary packages and unpacked items shall be located so as to allow the markings to be easily read whilst in storage and to ensure that they are not damaged or destroyed when the package is opened. Markings on outer containers, irregular shaped packages and pallets shall be located in accordance with the theoretical division as described in paragraph 5.11.1. Consignment and storage markings on reusable containers shall not interfere with markings unique to the container, e.g. NSN.
- 5.1.12 **Climatic Protection of Markings.** All markings and their materials that may be adversely affected by water, abrasion, or climatic conditions shall be suitably protected by a transparent water resistant coating.

5.1.13 Consignment Markings

5.1.13.1 **Consignment Numbering.** Each consignment shall be allotted a number. Each package in the consignment shall be numbered consecutively. The numeral/s stating the total number of packages shall appear first followed by the number of the package. When not inserted in the digital frame the two numbers shall be separated by an oblique stroke.

e.g., C5482 3/1 C5482 3/2 C5482 3/3

5.1.13.2 **Marking of Palletised and Unitised Loads.** Where a load does not provide a smooth surface (i.e. crates and pallet load frames) or where they would interfere with existing markings, the consignment markings shall be applied to a weather resistant panel or tag and securely attached to the centre of the vertical front face. Panels shall be coloured yellow to provide a contrasting background. Unless otherwise specified all lettering and numerals shall be in accordance with TABLE I. The panels shall be attached by screws or nails, which shall not damage the barrier material or contents.

5.1.13.3 **Single Consignment.** When a number of packages bearing a single consignment number are formed into a unit load or a number of unit loads, the unit load/s shall be marked with the consignment number appearing on the packages.

5.1.13.4 **Multi Consignment.** When a number of packages bearing different consignment numbers are formed into a unit load or a number of unit loads the unit load/s shall be allocated a single consignment number separate to the packages in the unit load/s.

5.1.13.5 **Consignment Bar Code Marking.** When the unit pack and exterior shipping container are one and the same, only the exterior shipping container bar code markings need to be applied. When bar code labels are used on level A exterior shipping containers, a waterproof, clear/transparent, plastic, protective overcoating shall be applied to the label.

5.2 Characters

5.2.1 The size of markings shall be proportional to the size of the package. Surface area shall be taken as the maximum area at one location exclusive of battens and hardware, which will accept all the required marking. Where available space precludes the employment of the character size as detailed in TABLE I an appropriate size shall be used to display the required marking. In all other cases the size and style of characters shall be uniform and comply with the requirements of TABLE I.

TABLE I
SIZE OF CHARACTERS

AREA OF CONTAINER FACE TO BE MARKED	CHARACTER SIZE
Up to 0.17 m ²	13 mm (min)
0.17 m ² to 0.27 m ²	13 to 20 mm
0.27 m ² and above	20 to 30 mm

5.3 Printing

- 5.3.1 Printing of text and symbols may be applied directly on to surfaces of containers at the time of manufacture.

5.4 Hand Printing

- 5.4.1 Unless otherwise specified, hand printing applied directly on to the surfaces of containers shall not be used.

5.5 Conditions of Surfaces to be Marked

- 5.5.1 All surfaces to be marked or to receive labels shall be:
- a. compatible with the markings or marking materials;
 - b. clear of oil, grease and other contaminants;
 - c. free of obstructions liable to render markings difficult to read, i.e. battens, box hardware etc; and
 - d. free of markings not applicable to the consignment.

5.6 Labels

- 5.6.1 **Use of Labels.** Labels may be used for marking containers.

- 5.6.2 **Size of Labels.** Unless otherwise specified the size of any label shall not be less than 25 mm square. The label dimensions shall be appropriate for the area to be marked.

5.6.3 Affixing of Labels

- 5.6.3.1 **Pressure Sensitive Labels.** Pressure sensitive labels shall meet the requirements of AS 2581.

- 5.6.3.2 **Non-Adhesive Labels.** Non-Adhesive labels shall be affixed by one of the following methods:
- a. by applying a transparent self adhesive tape over the label face and around the package so that the tape overlaps onto itself for at least 25 mm; or
 - b. by using a water resistant adhesive. The adhesive shall be applied to the receiving surface area in a thin, even and continuous coating. The label shall then be applied to the adherent coating, smoothing out underlying air pockets and working excess adhesive towards the edges.

- 5.6.3.3 **Linen Labels.** Linen labels shall be affixed to textile or paper surfaces using one of the following methods:

- a. stitching, using rot proofed, water proof twine. The stitches shall be spaced not more than 15 mm apart. The final stitch shall be securely locked and tied off; or
- b. affixed with a water resistant label adhesive.

- 5.6.3.4 **Metal Backed Labels.** Metal backed labels and metal frames shall be affixed by one of the following methods:

- a. wooden containers - with nails or staples not exceeding the thickness of the timber or 15 mm which ever is less;
- b. plywood containers - with rivets, nails or staples, clinched so that points do not protrude; or
- c. wire crates or bundles - tied with corrosion resistant wire.

5.6.3.5 **Printing of Labels.** Unless otherwise specified, the printing shall be no less than 10 Point Gill Sans Bold Condensed or equivalent. (Approximately normal typewriter type size). The size of the characters shall be proportional to the area available for markings and not to the overall size of the label.

5.6.4 **Bar Code Labels.** On other than wood containers, bar code markings may be applied either by labels or direct printing on the container. On wood containers (intermediate or exterior shipping), bar code markings will be applied only by means of labels. The labelling area will be given a smooth coat of sand coloured lacquer, paint, or varnish prior to application. A clear transparent overcoating must be placed over the bar code labels.

5.7 Tags

5.7.1 **Use of Tags.** Tags can be used in conjunction with other markings to facilitate identification of a package or when the physical shape or surface of the package makes the use of the markings impracticable.

5.7.2 **Size of Tags.** Tags used for primary package identification shall not be less than 65 by 40 mm and appropriate to the package size.

5.7.3 **Attachment, Placement, Colour, Lettering and Numerals.** Tags shall be weather resistant and securely attached to the centre of the front face. They shall be coloured yellow to provide a contrasting background. Unless otherwise specified, all lettering and numerals shall be in accordance with paragraph 5.2.

5.7.4 **Affixing of Tags.** Tags shall be affixed by one of the following methods:

- a. stitching using rot proof, water proof twine. The stitches shall be spaced not more than 15 mm apart; the final stitch shall be securely locked and tied off;
- b. tying with rot proofed, water proofed twine; or
- c. tying with corrosion resistant wire.

5.7.5 **Printing on Tags.** Unless otherwise specified, the printing shall be no less than 10 Point Gill Sans Bold Condensed or equivalent (approximately normal typewriter type size). The size of the characters shall be proportional to the area available for markings and not to the overall size of the tag.

5.7.6 Location of Bar Coding

5.7.6.1 **Coils of Wire.** Bar code markings will be applied to either side of both identification tags. (See FIGURE 1).

5.7.6.2 **Cylindrical Containers** (less than 130 mm in diameter). The bar code labels or markings will be applied so the bars are horizontal or in a "ladder" configuration. The bars must be placed 6.35 mm to 12.7 mm from the left edge of the identification markings. The bar code markings will not be placed on the tear strip or container seam. (See FIGURE 5).

5.7.6.3 **Barrels, Drums, and other Cylindrical Containers.** Bar code markings will be applied on the upper one-third of containers greater than 20 litres. For containers 20 litres or less, the bar code markings will be applied at the lower edge 40 mm \pm 5 mm from the bottom of the container to the bottom of the bar code. (See FIGURE 4)

5.7.6.4 When identification markings and contract data markings are applied to the top of the containers such as empty barrels drums, and other cylindrical containers, bar code markings will be applied beneath the required markings. (See FIGURE 5)

NOTE: Reusable containers. All incorrect bar code markings applied for previous shipments or storage will be obliterated prior to application of current bar code markings. Bar code applicable to systems other than Standard Department of Defence Bar Code Symbolology (SDS) will be obliterated or rendered unreadable.

5.7.6.5 **Reels or Spools of Cable, Wire, and Rope.** Bar code markings will be applied under the contract data markings. On wood reels or spools, the surface will be prepared and labels will be secured. (See FIGURE 2).

5.7.6.6 **Paper and Cloth-Wrapped Rolls.** Bar code markings will be applied adjacent to and to the right of the bottom line of the contract data markings. (See FIGURE 7).

5.8 **Removal of Irrelevant Markings**

5.8.1 Irrelevant markings shall be removed or obliterated. Obliteration shall be achieved by covering with a quick drying, Latex flat or low gloss paint complying with GPC-L-26/3.

5.9 **Legibility**

5.9.1 All markings shall be clear, legible, with sharp edges and shall be uniformly spaced. Markings shall be non-fading and durable. Adhesive coatings, which would smear or blur the markings, shall not be used.

5.10 **Colour**

5.10.1 Unless otherwise specified, the colour of all markings shall be black except when applied to surfaces on which black is not legible, in which case the colour used shall provide a definite contrast, e.g. yellow or white lettering shall be used when marking on lustreless, olive drab coloured metal drums. (Refer to ANNEX B Marking Schedule).

5.11 Location and Details of Markings

- 5.11.1 The need for rapid recognition of information related to activities of receipt, storage, distribution, handling and transportation emphasises the necessity to give details in standardised groupings. The surface of the outer container available for marking has therefore been arranged in a theoretical division of areas of standardised groupings. These groups are:

	GENERAL PURPOSE	DANGEROUS GOODS
PANEL 1:	Identification.	Proper Shipping Name and UN No.
PANEL 2	Vacant.	Vacant
PANEL 3	Handling, Stowage, Storage.	Cargo Aircraft Only Label
PANEL 4	Special.	Consignment Details
PANEL 5	Consignment Detail.	Dangerous Goods Label (s)
PANEL 6	Cargo Recognition and USN if required	Vacant
PANEL 7	Contractual Detail.	UN Marking and Manufacturers Identification
PANEL 8	Transportation Detail.	Vacant
PANEL 9	Bar Coding Detail.	Weight, Measurements and Bar coding
PANEL 10	Not Applicable	Orientation Arrows (for liquid dangerous goods only)

NOTE: The location of these groups are shown in ANNEX A, APPENDIX 1 and APPENDIX 2.

- 5.11.2 When space does not permit placing all required markings, including bar code markings, on one surface of the package, bar code labels/markings will be placed on an adjacent or reverse side of the package.
- 5.11.3 This division takes into account the requirements of domestic and international statutory regulations and standards pertaining to markings. It may not be practical to locate all information within the defined space owing to the limitations of area, size and amount of markings. When this occurs the markings shall be located as close as possible to the defined area. The sizes of labels and characters shall be adjusted accordingly. Paragraphs 5.11.4 to 5.11.11 give details of the standardised groupings. ANNEX B gives a summary (in table form) of the details.
- 5.11.4 **Identification Markings**
- 5.11.4.1 These shall be located in Panel 1, ANNEX A, APPENDIX 1 and APPENDIX 2.
- 5.11.4.2 **Primary Packages.** The following marking detail shall be provided on all primary packages and loose-tagged items. The detail shall have the following sequence:
- NATO Stock Number (NSN).** Where the NSN is not stated, the NSC Number (first four digits) with the addition of one of the following in order of preference listed, shall be used in lieu:

- (1) Service drawing number e.g. 3540-ADE(X) 1234;
- (2) Manufacturer's part number e.g. 3540-MFR No_____;
- (3) Order number/serial number e.g. 3540-Order/Serial No_____.

- b. **Approved Item Name (AIN).** Unless otherwise specified the AIN shall be marked on primary packages only.
- c. **Quantity and Unit of Issue (UI).** The quantity in the package expressed as a figure followed by the unit of issue shall be used as part of the identification for all packages and groupings of unpacked items. The unit of issue abbreviations listed in ANNEX C shall be used. e.g., 1EA.

5.11.4.3 **Multi-Item Packages**

- 5.11.4.3.1 When various supply classes are packed in a single container it shall be identified by the word "MULTI" followed by the supply classes;

e.g., MULTI 1510, 2620, 3130

- 5.11.4.3.2 When the same supply class is packed in a single container it shall be identified by the word "MULTI" followed by the supply class;

e.g., MULTI 1510

5.11.4.4 **Multi-packs.** These will be bar coded as follows:

- a. **Item Identification Markings.** These will not be bar coded on the exterior shipping container of multipack shipments. However, unit packs and intermediate containers require bar code markings.
- b. **Unitised/Palletised Loads.** Bar code markings will be applied to the outside of the load on two adjacent sides below the identification markings. When the individual containers comprising the load are bar coded and scannable, no additional bar code markings are required.
- c. **Contract Number.** The contract number will be bar coded on the exterior shipping container of the multipack if the number applies to all unit and intermediate containers in the multipack. If mixed contract numbers are contained in the multipack, each unit or intermediate container will have the contract data bar coded and the exterior will not be bar coded.

5.11.5 **Dangerous Goods Labels**

- 5.11.5.1 These shall be located in Panel 5. (See ANNEX A, APPENDIX 3).

- 5.11.5.2 All containers holding dangerous goods shall have affixed to their external surfaces the applicable dangerous goods label. Refer to ADG Code.

5.11.6 **Handling, Stowage and Storage Symbols**

- 5.11.6.1 These shall be located in Panel 3. (See ANNEX A, APPENDIX 1).

- 5.11.6.2 **General.** The symbol size shall be proportional to the size of the package. Irregular and circular packages shall be marked at equi-distant points of the container periphery.

- 5.11.6.3 **Medical Serum.** Packages containing medical serum shall be marked by the appropriate label, illustrated in ANNEX D, and shall include "Fragile" and "This Way Up" markings.
- 5.11.6.4 **Perishable Medical.** Packages containing perishable medical stores shall be marked with the label illustrated in ANNEX D.
- 5.11.6.5 **This Way Up.** When required, packages shall be marked with arrows on two adjacent faces as illustrated in ANNEX E.
- 5.11.6.6 **Fragile.** All packages containing items susceptible to breakage during handling, storage and movement shall be marked as illustrated in ANNEX E.
- 5.11.6.7 **Keep Dry.** When the package or contents require protection from the elements they shall be marked with the symbol illustrated in ANNEX E.
- 5.11.6.8 **Keep Away From Heat.** A package shall be marked with the symbol illustrated in ANNEX E when it contains:
- a. perishable medical items to be maintained at a constant temperature;
 - b. items which, when stored under conditions of heat, will rapidly deteriorate to an unserviceable state; or
 - c. items, which are brought to a hazardous condition by, heat.
- 5.11.6.9 **Use No Hooks.** When the safety of the container or contents prohibits the use of hooks during handling, the container shall be marked with the symbol illustrated in ANNEX E.
- 5.11.6.10 **Method II Pack.** Desiccated packages shall bear the label illustrated in ANNEX E. Details relating to the desiccant mass and shelf life shall be completed on the closure.
- 5.11.6.11 **Electrostatic Sensitive Devices (ESSD).** Electrical and electronic parts classified, as sensitive to damage from electrostatic discharge shall be marked in accordance with the ESSD symbol illustrated in ANNEX E.
- 5.11.7 **Special Markings**
- 5.11.7.1 The purpose of the special markings is to ensure access to essential information without the need to open and/or destroy the effectiveness of the pack.
- 5.11.7.2 These shall be located in Panel 4. (See ANNEX A, APPENDIX 1).
- 5.11.7.3 **General.** Unless otherwise specified, the information shall be marked on all containers.
- 5.11.7.4 **Serial Number.** The serial number of the item packaged shall appear on all containers. When several items bearing consecutive numbers are packed in a single container the first and last digit only shall be shown. Serial numbers allotted by the manufacturer recording the quantity produced shall not be shown. Serial numbers shall be shown as follows:
- e.g. a. SERIAL 12345;
 - b. SERIAL 12345
TO 12354.
- 5.11.7.5 **Modification Number (MOD).** When modified by Service authority to a Service standard the modification detail marked on the identification/modification plate of the item, shall be marked on all containers. Unless otherwise specified, the modification shall be shown as follows:

- 5.11.7.6 e.g. MOD_____ **Manufacturer's Part Number.** Where applicable this number shall be shown as follows on all containers:
- e.g. MFR NO_____
- 5.11.7.7 **Lot, Batch, Control Numbers.** Where applicable these numbers shall be shown as follows on all containers:
- e.g. LOT_____;
- BATCH_____;
- CONTROL_____.
- 5.11.7.8 **Storage Life Markings (SL).** Items having restricted or limited periods of serviceability, potency and storage shall be legibly marked on all containers.
- 5.11.7.8.1 **Potency Dated Materials.** Shall be marked by the day, month and year:
- e.g. USE BEFORE_____
- 5.11.7.8.2 **Perishable Materials.** Shall be marked by the month and year, by one of the methods as under:
- e.g. EXPIRES_____; or
- USE BEFORE_____.
- 5.11.7.8.3 **Date of Manufacture (DOM).** Shall be shown by month and year:
- e.g. DOM 0181
- 5.11.7.9 **Level of Packaging.** To be stated as detailed in DEF(AUST)1000, PART 2, SECTION C.
- e.g. LEVEL A
- 5.11.7.10 **Specification/Standard/Drawing Number.** The number of the appropriate document specified in the procurement demand shall be marked on all containers.
- e.g. SPEC DEF(AUST)5153;
- STD AS 1476-1974;
- DWG H-817-4.
- 5.11.7.11 **Complete Equipment Packages (CEP).** When an item is packaged in more than one package each pack shall be marked to show the package number and the total number of packages which form the complete item.
- e.g. CEP 1 OF 3;
- CEP 2 OF 3;
- CEP 3 OF 3.
- 5.11.7.12 **Project Markings.** When specified, containers shall be identified by the appropriate reference provided by the Service Authority and shall be shown on all containers.

- e.g. PROJECT 81/3
- 5.11.7.13 **Delicate Instruments.** When specified, labels for consignment containing precision instruments, e.g. automatic pilot mechanisms including airborne gyros and other navigational and flight equipment, shall be affixed to the outer container:

e.g. (As detailed below, NSN 7690-66-091-3510).

<p style="text-align: center;">WARNING DELICATE PRECISION INSTRUMENT TO BE OPENED ONLY BY OR UNDER THE SUPERVISION OF APPROVED TECHNICAL PERSONNEL</p>

5.11.8 **Consignment Detail**

- 5.11.8.1 These shall be located in Panel 5. (See ANNEX A, APPENDIX 1).
- 5.11.8.2 **Priority Detail.** When specified as a requirement in contractual documents the appropriate label and dispatch detail shall be provided by the Service concerned.
- 5.11.8.3 **Packages in Consignment.** See paragraph 5.1.13.
- 5.11.8.4 **Package Number.** See paragraph 5.1.13.
- 5.11.8.5 **Delivery Date.** The Delivery Data marking in the RDD/SDD field is to comprise the SDD to the RDD as appropriate, as described below:
- a. **Standard Delivery Date (SDD).** The letters SDD followed by the calendar date are to be inserted next to the Priority Designator on the consignment marking frame as shown at ANNEX F.
 - b. **Required Delivery Date (RDD).** As consignment with the marking require exception management, the RDD followed by the words DELIVER ON/BY (as appropriate) followed by the calendar date are to be added in RED above the consignment marking frame.
- 5.11.8.6 **Unit Designator Code.** The current central EDP unit code identifies the consignee's unit.
- 5.11.8.7 **Consignee/Consignee Address.** Shall be applied to:
- a. single packages for dispatch;
 - b. all loose packages prepared for dispatch as individual units of a consignment;
 - c. the unit load, when packages are prepared for dispatch to the same destination point, and
 - d. a consolidated unit load addressed to a bulk break destination and to all packages of the consignment or respective consignments for the consolidated unit load.
- NOTE:** Address markings shall not be applied to containers when a contractor delivers directly to a Service installation.

- 5.11.8.8 **Domestic Service Consignments.** Unless otherwise specified address markings for consignment within Australia shall not be marked directly on the container. Address markings shall be marked on removable (pressure sensitive adhesive) labels. The consignee's name shall be the approved abbreviated title, followed by the town and state. The colour of the label shall be in accordance with the priority of the item(s) to be shipped (Consignment Marking Frame is shown at ANNEX F).
- 5.11.8.9 **Overseas Service Consignments.** Address markings for consignments to overseas destinations shall be marked directly onto the external surface of the container. However, in war, or when directed, the consignee's name may be replaced by the 'Unit Recognition Mark' and the consignee's address replaced by the 'destination code'.
- 5.11.8.10 **Message Demand.** When specified the message demand marking shall be placed on the container above the movement priority.
- 5.11.9 **Cargo Recognition**
- 5.11.9.1 Australian Services Cargo Recognition Mark (ASCRM) shall be placed on the containers when specified by the Ordering Authority. (See ANNEX G for detail). This marking shall be located within Panel 6. (See ANNEX A, APPENDIX 1).
- 5.11.9.2 **Unit Serial Number (USN) (for Army and joint operations use only).** The USN is the first four digits of the unit Electronic Data Processing (EDP) reporting number in the Order of Battle, or for a newly raised unit the EDP reporting number advised in the raising instruction, and is to be placed centrally above the apex of the colour bars (See ANNEX G for examples) and shall be located within Panel 6 (ANNEX A, APPENDIX 1). The size of the numerals is to be:
- a. Small items, 12 mm high, and
 - b. Large items 250 mm high.
- 5.11.9.2.1 **Colour Bars.** Numerals in the unit serial number are each represented by a colour bar. Horizontal colour bars are arranged in the form of a triangle consisting of a base bar, two intermediate bars and the apex of the triangle. The numerals of the serial number are to be indicated as follows:
- a. **Base Bar.** This is the widest bar and is a colour, which represents the fourth digit in the unit serial number.
 - b. **First Intermediate Bar.** This bar is immediately above the base bar and is to be of a colour, which represents the third digit in the serial number.
 - c. **Second Intermediate Bar.** Is to be a colour, which represents the second digit in the serial number.
 - d. **Apex Bar.** Is to be a colour, which represents the first digit in the unit serial number. The apex bar is used only when the unit serial number is 2000 or larger.
- 5.11.9.2.2 **Bar Size.** The bar sizes are as follows:
- a. **Large Items.** On large items, each bar is to be 50mm high with 25 mm between the bars. The base bar is to be 25 cm long.

- b. **Small Items.** On small items, each bar is to be 25 mm high with 12 mm between the bars. The base bar is to be 100 mm long.

5.11.9.2.3 **Selection of Colours.** The colours for unit colour bars and unit recognition marks are to be in accordance with Table II.

TABLE II
NUMBERS AND COLOURS

Serial	Numeral or Recognition Mark	Colour
(a)	(b)	(c)
1	One (1)	Red Signal
2	Two (2)	Blue Azure
3	Three (3)	Yellow Golden
4	Four (4)	Green Grass
5	Five (5)	Grey Light
6	Six (6)	Buff Light
7	Seven (7)	Orange Light
8	Eight (8)	Green Deep Brunswick
9	Nine (9)	White
10	Zero (0)	Brown Middle
11	Unit Recognition Orange International Mark	

5.11.9.2.4 **Vehicle Marking.** Unit vehicles are to be marked with the unit recognition mark (see ANNEX G). The recognition mark is to be placed on both front mudguards between the door line and the wheel arch for 'B' Vehicles, 'A' and 'C' Vehicles are to display the recognition mark in a prominent position on both sides of the vehicle.

5.11.10 **Contractual Markings.** Shall be located within Panel 7. (See ANNEX A, APPENDIX 1).

5.11.10.1 **General.** Unless otherwise specified, the following shall be marked on all outer containers delivered by a contractor to a Service depot/unit:

- a. **Order Number.** When not employed as the consignment number, the services procurement demand number or contract acceptance and purchase order number shall be marked in this panel; and
- b. **Date Packed.** When specified as a requirement the date packed shall be shown by month and year.

5.11.11 **Transportation Markings**

5.11.11.1 These shall be located in Panel 8. (See ANNEX A, APPENDIX 1).

5.11.11.2 **General.** Unless otherwise specified, the following markings shall appear on all outer containers:

- a. **Mass.** The gross mass of the packed container is to be expressed in tonnes, kilograms or grams;
- b. **Volume.** The measurement is to be calculated by the overall dimensions, which shall include battens, cleats and underside bearers. Irregular, cylindrical or round packages are to be calculated as rectangular or square packs. The volume shall be expressed to the nearest 0.001 m³. Linear measurements used to calculate volume may be approximate to the next 20 mm upwards, except where the original measurement is an exact multiple of 20 mm; and

- c. **Dimensions.** The external dimensions of a container shall be expressed in metres. The dimensions shall be related to the orientation in which a container is designed for storage and transportation and shall be expressed in the sequence of:

Length - the greater dimensions in the horizontal plane;

Width - the lesser dimension in the horizontal plane;

Depth - the dimension in the vertical plane.

5.11.12 **Bar Coding Detail**

5.11.12.1 Bar codes may be applied in one of the following formats, listed in order of preference:

- a. stacked on two separate lines with the NSN/NATO stock number immediately above the contract number. (See ANNEX A, APPENDIX 1, FIGURE 9); or
- b. applied in line with the NSN/NATO stock number preceding the contract number and with spacing separating the two numbers. (See ANNEX A, APPENDIX 1, FIGURE 10).

5.11.12.2 Bar code markings placed inside a transparent container must be machine readable from the outside of the container. Similarly, bar code markings on containers which are shrink-wrapped or stretch wrapped onto a load must be machine readable from the outside of the load in at least one location.

5.11.12.3.1.1.1 When cleats, strapping, or package configuration interferes with placement of the bar code markings, the bar code markings will be placed as near as practicable to the prescribed area.

5.11.13 **Additional Handling Symbols**

5.11.13.1 These additional symbols as shown in ANNEX E are to be placed as specified by the Ordering Authority.

5.11.13.2 **Details of Handling Symbols**

5.11.13.2.1 **Centre of Gravity.** When applicable, the centre of gravity symbol shall be marked on at least two adjacent faces of the container, at the exact point of balance. Where conflict occurs between two markings the centre of gravity symbol shall take precedence.

5.11.13.2.2 **Sling Here.** When applicable the "Sling Here" symbols shall be shown on the two opposite vertical faces of the container at the points for slinging. The "Sling Here" symbol shall take precedence over other markings, should conflict occur.

5.11.13.2.3 **Do Not Lift.** When specified, the warning against lifting, slinging and grab points shall be stencilled in red. This is to be placed on packages or items of equipment wherever lifting, slinging and grabbing at those points could damage the contents or equipment. This marking shall take precedence over other markings, should conflict occur.

5.11.13.2.4 **Deck Stow.** When packages are palletised the marking shall not appear on the packages but shall be marked on the left-hand face of the two outer pallet bearers. In all other cases markings shall be placed on individual packages. This marking shall be applied by stencil.

5.11.13.2.5 **Marking of Centre of Balance.** When the mass of items not evenly distributed, a 2.5 centimetre (cm) by 7.5 cm line locating the centre of balance shall be extended up from the bottom edge of both sides of all items and shall include vehicles over 3.0 metres in length. This line shall be identified by stencilling or printing in 2.5 cm high letters the words

“CENTRE OF BALANCE” immediately above or alongside this mark. As an option ISO symbol 7000/No. 0627 may be affected as prescribed in ISO standard 780.

- 5.11.13.2.6 **Load Bearing Areas and Lift Points.** When shipping containers and contents are subject to damage by bending and twisting from uneven container stresses or strains, load bearing areas and lift points shall be marked on the exterior of the container. The words “LOAD BEARING AREA” shall be marked on the opposite panels of the container directly over the load bearing areas. The words “FORKLIFT AREA” shall be placed over the forklift truck entry points of the skid and rubbing strip construction.
- 5.11.13.2.7 **Sling Points, Unboxed Equipment.** The location of designed sling or lift points shall be marked in black. On vehicles, which are painted black or other dark colours, The markings shall be white with the words “LIFT HERE” and an arrow pointing to the lifting eyes. For marking unboxed equipment and vehicles, the paint shall be petrol soluble. When space permits, the size of arrow and lettering will be 2.5 centimetres high.
- 5.12 **Marking of General Purpose Polymer Containers**
- 5.12.1 As their shape may prohibit marking as stated for general freight containers as detailed previously in this document, when required general purpose polymer containers shall be marked as shown in APPENDIX 2
- 5.12.2 Direct marking of all polymer containers using paints, ink or pencil is to be discouraged. Pressure sensitive labels are to be used, as new labels can be placed over old labels without disfigurement to the container.
- 5.12.3 For all other markings of polymer containers, marking shall be as for general freight containers (paragraph 5.1.9).

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ANNEX A

LOCATION OF MARKINGS

APPENDIX 1 - GENERAL PURPOSE CONTAINERS

APPENDIX 2 - GENERAL PURPOSE POLYMER CONTAINERS

APPENDIX 3 - DANGEROUS GOODS CONTAINERS

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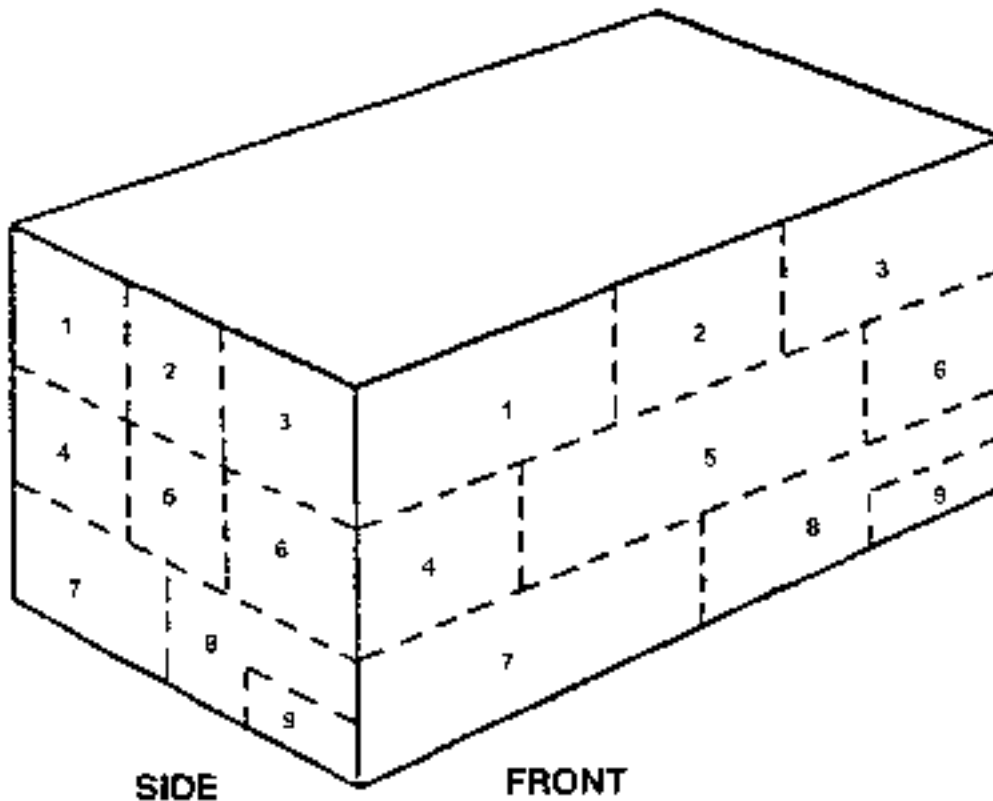
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APPENDIX 1

THEORETICAL DIVISION OF A CONTAINER

FOR THE LOCATION OF GENERAL PURPOSE MARKINGS

- A1. **GENERAL.** This ANNEX shows the theoretical division of a container for markings. The accompanying illustrations show examples of markings on containers of varying configurations.



- Panel 1: **IDENTIFICATION**
- Panel 2: **VACANT**
- Panel 3: **HANDLING/STOWAGE/STORAGE**
- Panel 4: **SPECIAL MARKINGS**
- Panel 5: **CONSIGNMENT DETAIL** (If insufficient space, side marking optional)
- Panel 6: **CARGO RECOGNITION**
- Panel 7: **CONTRACTUAL**
- Panel 8: **TRANSPORTATION**
- Panel 9: **BAR CODING**

THEORETICAL DIVISION OF COMMON CONTAINERS

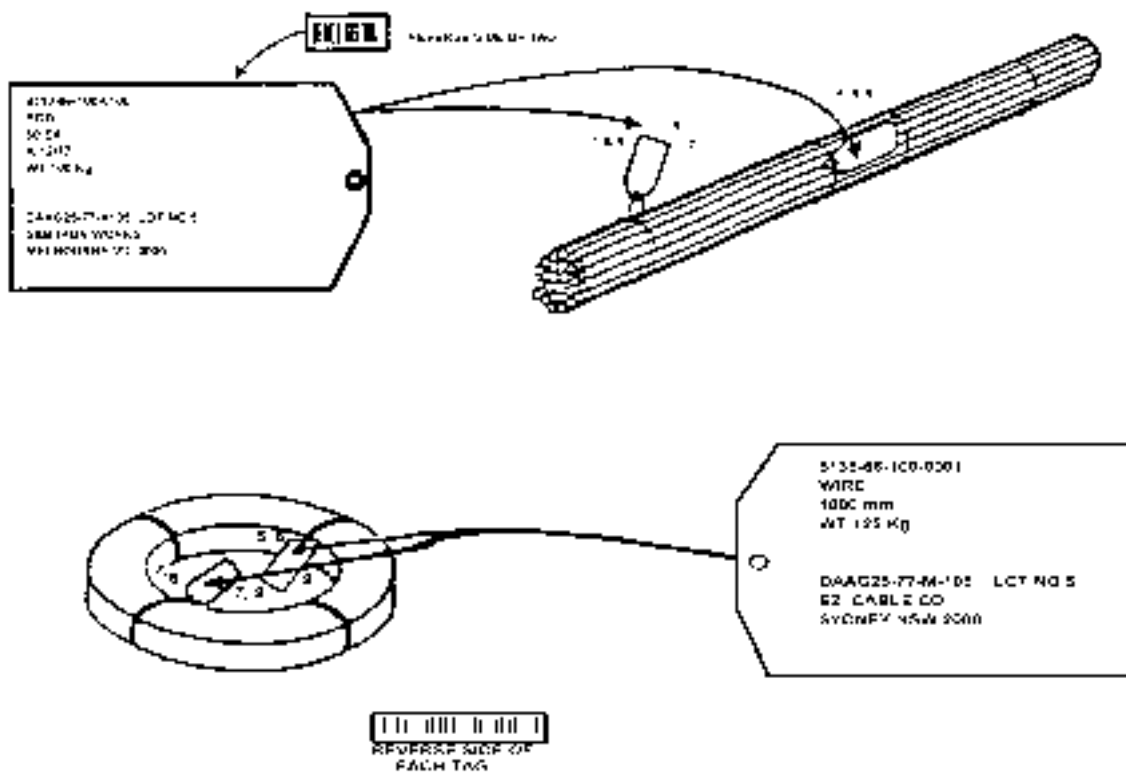
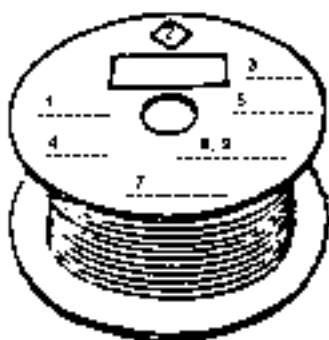


FIGURE 1 Identification and contract data markings (rods, shafts, bars, coils of wire).



NOTE: 1A = NSN
1B = ITEM NAME

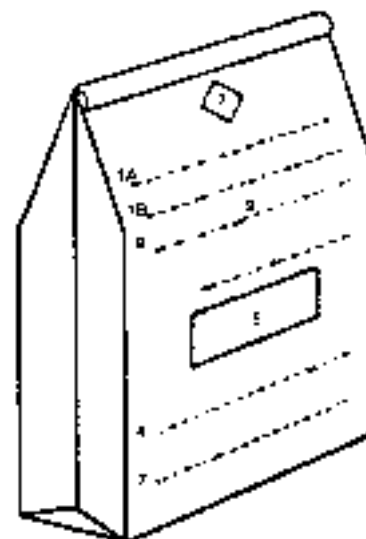


FIGURE 2

FIGURE 3

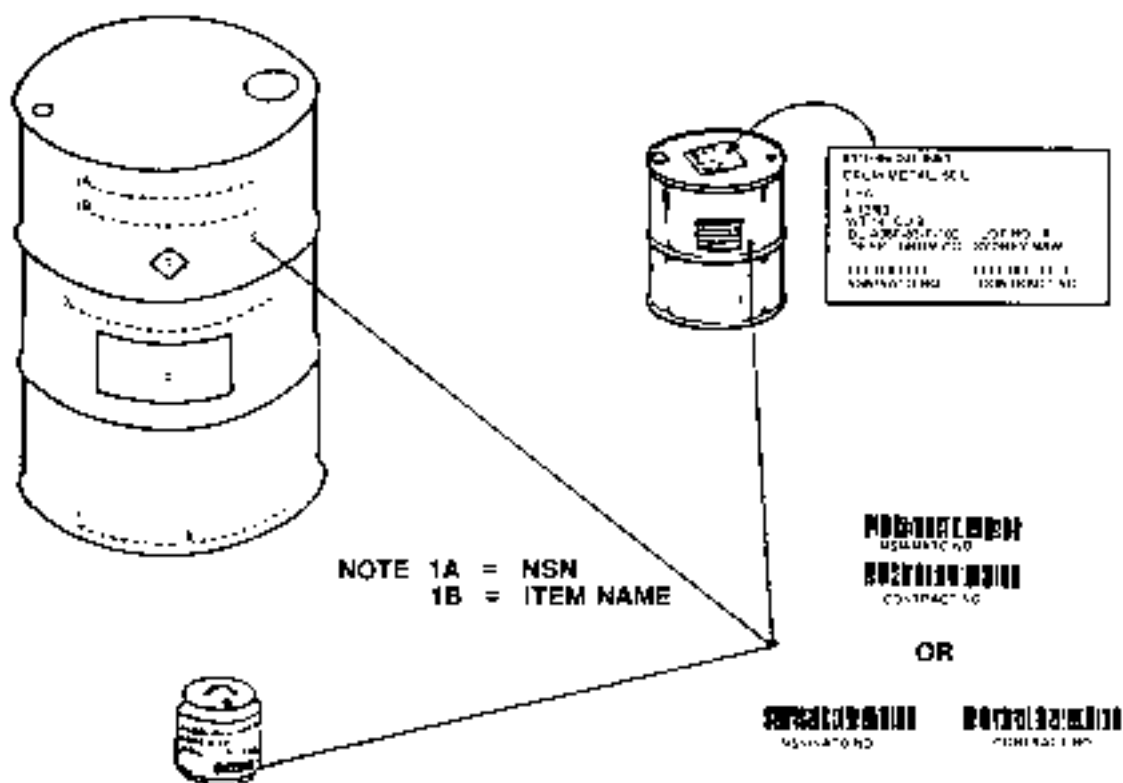


FIGURE 4 Bar Code Markings for Cylindrical Containers

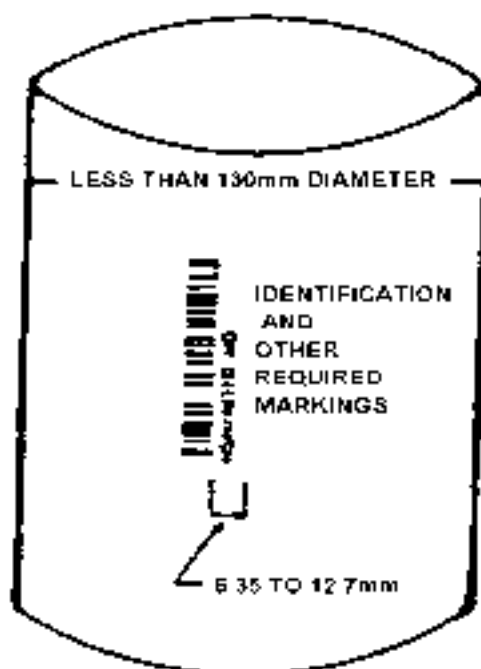


FIGURE 5 Small Cylinders

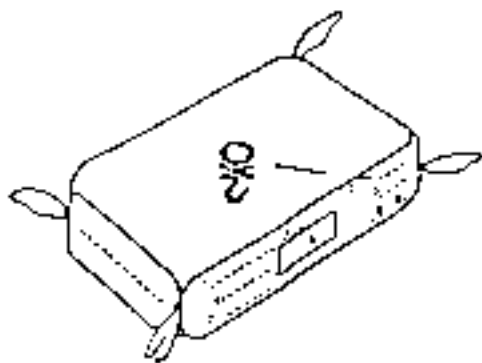


FIGURE 6

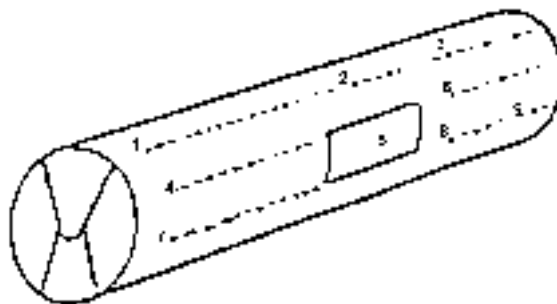


FIGURE 7

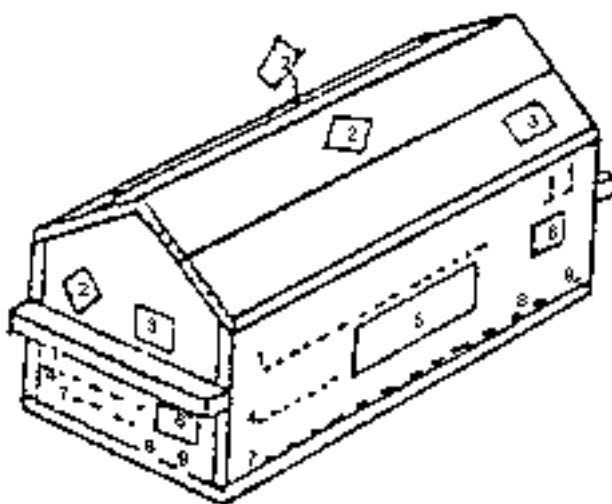


FIGURE 8

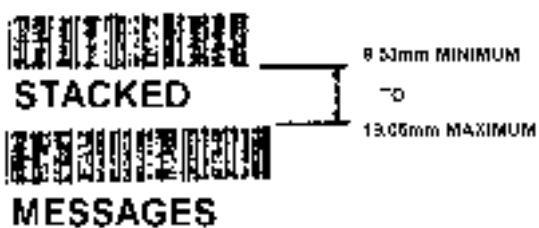
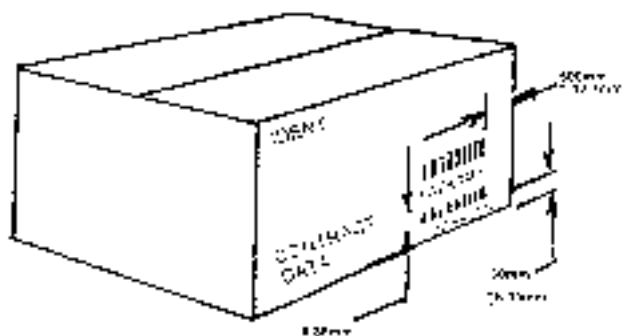


FIGURE 9

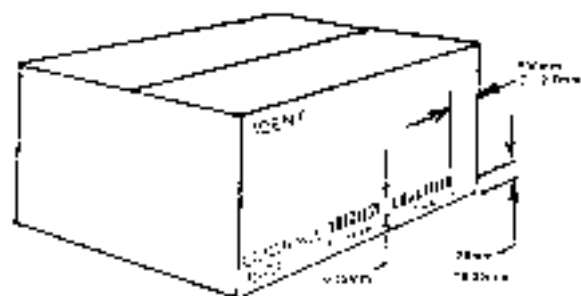


FIGURE 10

APPENDIX 2

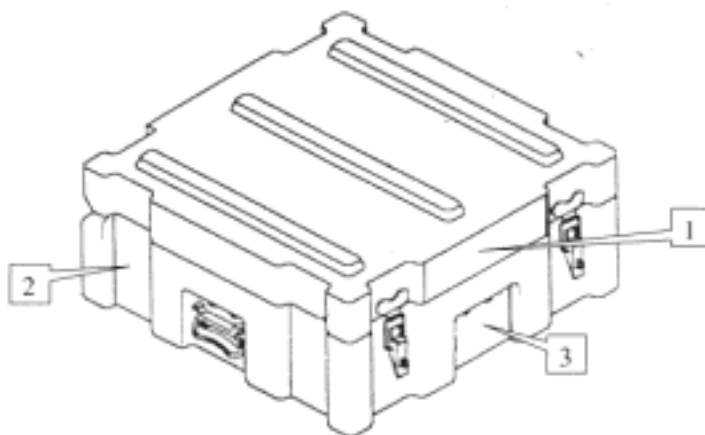
MARKING AND LOCATION FOR GENERAL

PURPOSE POLYMER CONTAINERS

1. **GENERAL.** This ANNEX shows the location for the marking of the following general-purpose polymer containers:

NSN	8115-66-138-9523	550mm x 550mm x 450mm
	8115-66-140-6362	550mm x 550mm x 225mm

NIC	550mm x 550mm x 675mm
	550mm x 550mm x 310mm



Panel 1: IDENTIFICATION

Panel 2: HANDLING/STOWAGE/STORAGE

Panel 3: CONSIGNMENT DETAIL

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APPENDIX 2 (Cont'd)

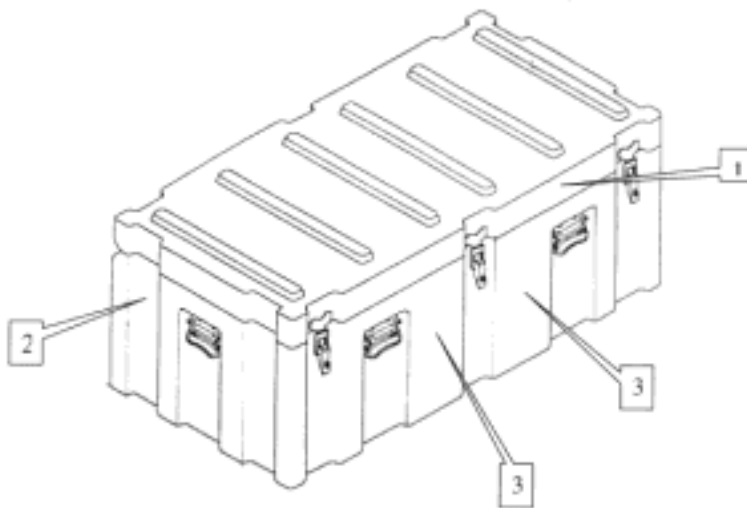
MARKING AND LOCATION FOR GENERAL

PURPOSE POLYMER CONTAINERS

2. **GENERAL.** This ANNEX shows the location for the marking of the following general-purpose polymer containers.

NSN	8115-66-138-9522	1100mm x 550mm x 450mm
	8115-66-140-6361	1100mm x 550mm x 225mm
	8115-66-141-6328	1100mm x 550mm x 675mm

NIC	1100mm x 550mm x 310mm
------------	------------------------



Panel 1: IDENTIFICATION

Panel 2: HANDLING/STOWAGE/STORAGE

Panel 3: CONSIGNMENT DETAIL

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NSN:	Dimensions:
Item Name:	Weight:
Quantity/Unit of Issue:	Cube:

Example: Identification Label for Polymer Containers (NSN 7960 - 66 - 145 - 0442)

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AA 455
Introduced May 88

Department of Defence
PRIORITY 3 LABEL

Consignor		
PRIORITY 3/	PD	RDD / SDD
Consignment / Case Number	Pack Number	Number of Packs
Consignee		UDC
Consignee Address		Weight
		Dimensions
		Cubic Capacity

Example: Priority Label for Polymer Containers

NSN's - 7690 - 66 - 145 - 0219 (Priority 1)
7690 - 66 - 145 - 0220 (Priority 2)
7690 - 66 - 145 - 0221 (Priority 3)

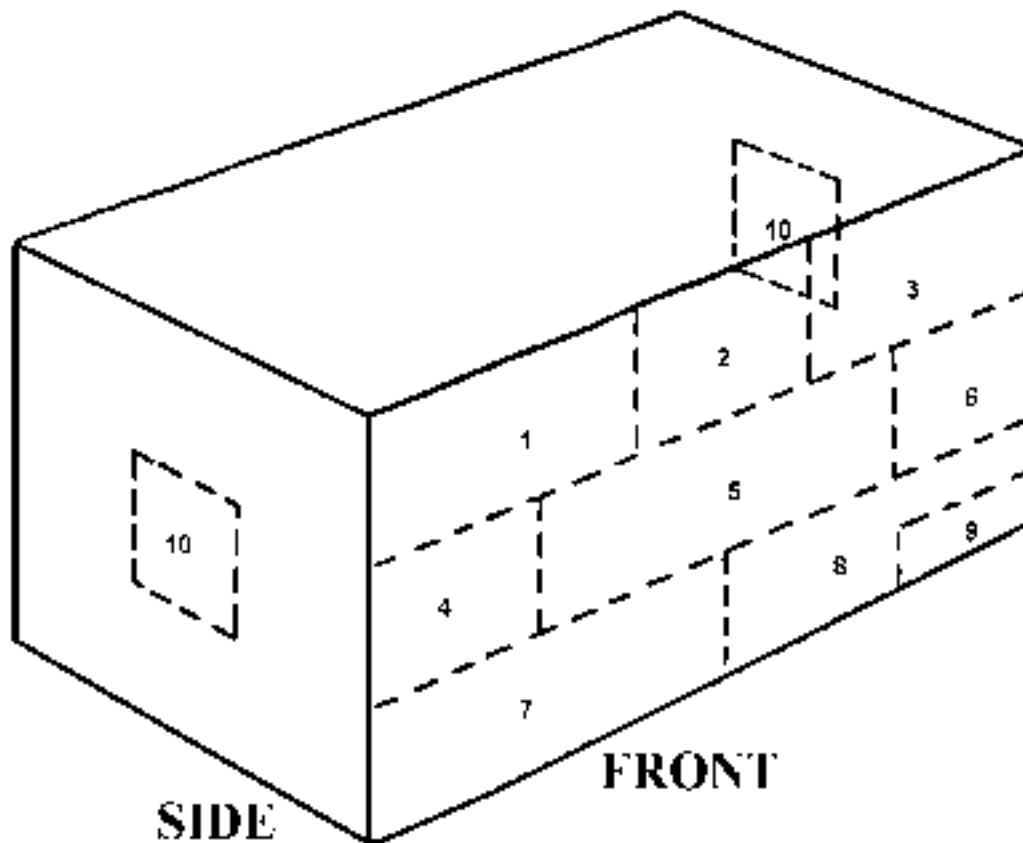
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APPENDIX 3

THEORETICAL DIVISION OF A CONTAINER FOR THE LOCATION OF DANGEROUS GOODS MARKINGS

1. **GENERAL.** This APPENDIX shows the theoretical division of a container for dangerous goods markings. The accompanying illustrations show examples of markings on containers of varying configurations.

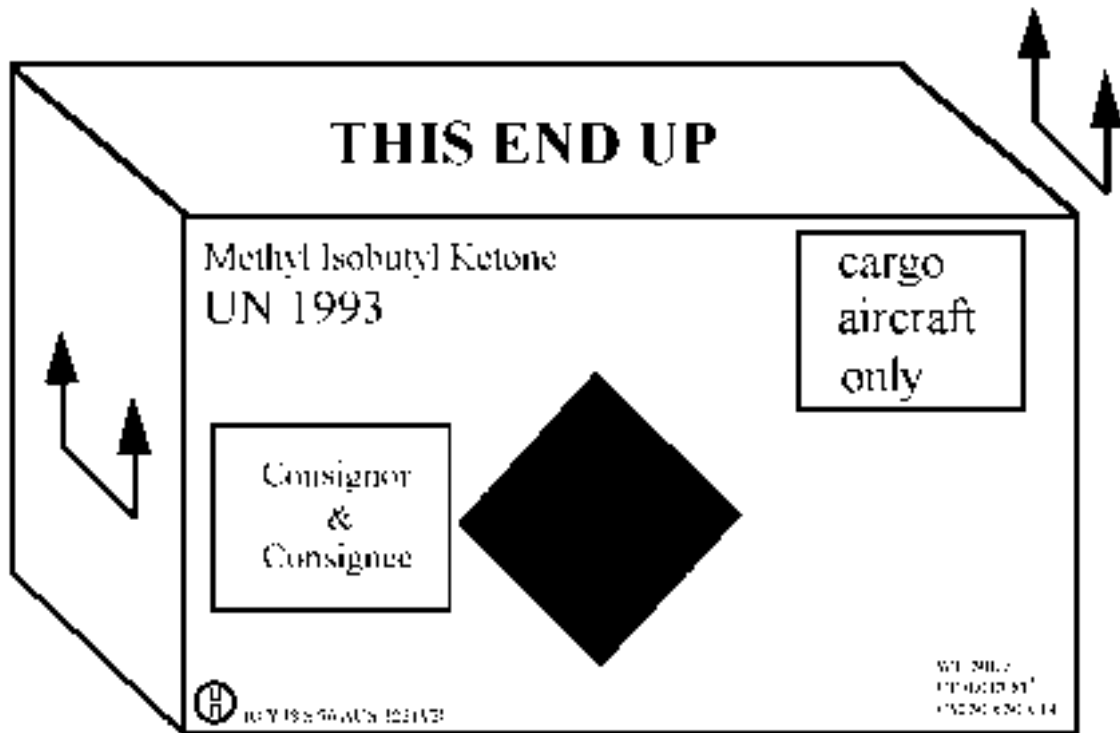


- | | |
|-----------|---|
| Panel 1: | PROPER SHIPPING NAME AND UN No. |
| Panel 2: | VACANT |
| Panel 3: | CARGO AIRCRAFT ONLY LABEL (Required when item is packed for movement by Cargo Aircraft Only) |
| Panel 4: | CONSIGNMENT DETAILS |
| Panel 5: | DANGEROUS GOODS LABEL(S) |
| Panel 6: | VACANT |
| Panel 7: | UN MARKING AND MANUFACTURERS IDENTIFICATION |
| Panel 8: | VACANT |
| Panel 9: | WEIGHT, MEASUREMENTS AND BAR CODING |
| Panel 10: | ORIENTATION ARROWS (for liquid dangerous goods only) |

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EXAMPLE OF APPENDIX 3 - THEORETICAL DIVISION OF A CONTAINER FOR THE LOCATION OF DANGEROUS GOODS MARKINGS



- Panel 1: **PROPER SHIPPING NAME AND UN No.**
- Panel 2: **VACANT**
- Panel 3: **CARGO AIRCRAFT ONLY LABEL** (Required when the item is packed for movement by Cargo Aircraft Only)
- Panel 4: **CONSIGNMENT DETAILS**
- Panel 5: **DANGEROUS GOODS LABEL(S)**
- Panel 6: **VACANT**
- Panel 7: **UN MARKING AND MANUFACTURERS IDENTIFICATION**
- Panel 8: **VACANT**
- Panel 9: **WEIGHT, MEASUREMENTS AND BAR CODING**
- Panel 10: **ORIENTATION ARROWS** (for liquid dangerous goods only)

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ANNEX B

MARKING SCHEDULE

APPENDIX 1 GENERAL PURPOSE

APPENDIX 2 DANGEROUS GOODS

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APPENDIX 1

MARKING SCHEDULE GENERAL PURPOSE
(EXCLUDING DANGEROUS GOODS)

MARKING REQUIRED	PACKAGE		COLOUR	REFERENCE	
	PRIMARY	OUTER		PARA-GRAPH	ANNEX
IDENTIFICATION - PANEL 1					
NATO Stock Number	M	M	Black	5.11.4.2	
Approved Item Name	M	NU	Black	5.11.4.2	
Quantity and Unit of Issue	M	M	Black	5.11.4.2	
Multi-Item Pack	NU	M	Black	5.11.4.3	
DANGEROUS GOODS LABELS – PANEL 2	A	A		5.11.5.2	
HANDLING/STOWAGE/STORAGE – PANEL 3					
Medical Serum	NU	A	NOTE 1	5.11.6.3	D
Perishable Medical	NU	A	NOTE 1	5.11.6.4	D
This Way Up	A	A	Black	5.11.6.5	E
Fragile	A	A	Black	5.11.6.6	E
Keep Dry	A	A	Black	5.11.6.7	E
Keep Away From Heat	A	A	Black	5.11.6.8	E
Use No Hooks	NU	A	Black	5.11.6.9	E
Method II Pack	A	A	Black	5.11.6.10	E
Magnetised Material	A	A	Blue		E
SPECIAL MARKINGS - PANEL 4					
Serial Number	A	A	Black	5.11.7.4	
Modification Number (MOD)	A	A	Black	5.11.7.5	
Manufacturer's Part Number	A	A	Black	5.11.7.6	
Lot, Batch, Control Number	A	A	Black	5.11.7.7	
Storage Life:-	A	A	Black	5.11.7.8	
Potency Dated Materials	A	A	Black	5.11.7.8.1	
Perishable Materials	A	A	Black	5.11.7.8.2	
Date of Manufacture (DOM)	A	A	Black	5.11.7.8.3	
Level of Packaging	A	A	Black	5.11.7.9	
Specification/Standard/ Drawing Number	A	A	Black	5.11.7.10	

MARKING SCHEDULE

LEGEND:

NOTE 1: Colours of these labels are as detailed in the specification for the particular labels.

M Mandatory Marking required on all packages.

NOTE 2: Priority labels are coloured as under:

- Priority 1 - Red on white
- Priority 2 - Green on white
- Priority 3 - Blue on white
- Priority 4 - Orange on white

NU This Marking NOT USED on this package.

A To be applied where needed.

APPENDIX 1

**MARKING SCHEDULE GENERAL PURPOSE
(EXCLUDING DANGEROUS GOODS) (Cont'd)**

MARKING REQUIRED	PACKAGE		COLOUR	REFERENCE	
	PRIMARY	OUTER		PARA- GRAPH	ANNEX
Complete Equipment Package(CEP)	NU	A	Black	5.11.7.11	
Project Marking	NU	A	Black	5.11.7.12	
Delicate Instruments	NU	A	NOTE 1	5.11.7.13	
CONSIGNMENT DETAILS – PANEL 5					
Priority Detail AUSMIMPS	NU	A	NOTE 2	5.11.8.2	F
Consignment Number	NU	A	Black	5.1.13	
Number of Packs in Consignment	NU	A	Black	5.1.13	
Pack Number	NU	A	Black	5.1.13	
Consignee Address	NU	A	Black	5.11.8.8	
Message Demand	NU	A	Black	5.11.8.11	
Delivery Date	NU	A	Black	5.11.8.6	
Unit Designator Code	NU	A	Black	5.11.8.7	
CARGO RECOGNITION - PANEL 6					
Service Marking ASCRM	NU	A	Orange	5.11.9	G
CONTRACTUAL - PANEL 7					
Order Number	A	A	Black	5.11.10.1	
Date Packed	M	M	Black	5.11.10.1	
TRANSPORTATION - PANEL 8					
Mass	NU	A	Black	5.11.11.2(a)	
Volume	NU	A	Black	5.11.11.2(b)	
Dimensions	NU	A	Black	5.11.11.2(c)	
BAR CODING SYMBOLS - PANEL 9	A	A	Black	5.1.10	
ADDITIONAL HANDLING SYMBOLS					
Centre of Gravity	NU	A	Black	5.11.13.2.1	E
Sling Here	NU	A	Black	5.11.13.2.2	E
Do Not Lift	NU	A	Red	5.11.13.2.3	
Deck Stow	NU	A	Black	5.11.13.2.4	

MARKING SCHEDULE

LEGEND:

NOTE 1: Colours of these labels are as detailed in the specification for the particular labels.

M Mandatory Marking required on all packages.

NOTE 2: Priority labels are coloured as under:

- Priority 1 - Red on white
- Priority 2 - Green on white
- Priority 3 - Blue on white
- Priority 4 - Orange on white

NU This Marking NOT USED on this package.

A To be applied where needed.

BLANK

APPENDIX 2

DANGEROUS GOODS MARKING SCHEDULE

MARKING REQUIRED	PACKAGE		COLOUR	REFERENCE	
	PRIMARY	OUTER		PARA-GRAPH	ANNEX
IDENTIFICATION - PANEL 1					
UN number					
Proper Shipping Name					
Multi-Item Pack	NU	M	Black	5.11.4.3	
VACANT - PANEL 2					
HANDLING/STOWAGE/STORAGE – PANEL 3					
Medical Serum	NU	A	NOTE 1	5.11.6.3	D
Perishable Medical	NU	A	NOTE 1	5.11.6.4	D
Fragile	A	A	Black	5.11.6.6	E
Keep Dry	A	A	Black	5.11.6.7	E
Keep Away From Heat	A	A	Black	5.11.6.8	E
Use No Hooks	NU	A	Black	5.11.6.9	E
Magnetised Material	A	A	Blue		E
Cargo Aircraft Only					
CONSIGNMENT DETAILS - PANEL 4					
Priority Detail AUSMIMPS	NU	A	NOTE 2	5.11.8.2	F
Consignment Number	NU	A	Black	5.1.13	
Number Of Packs in -					
Consignment	NU	A	Black	5.1.13	
Pack Number	NU	A	Black	5.1.13	
Consignee /Consignee Address	NU	A	Black	5.11.8.8	
Message Demand	NU	A	Black	5.11.8.11	
Delivery Date	NU	A	Black	5.11.8.6	
Unit Designator Code	NU	A	Black	5.11.8.7	
DANGEROUS GOODS LABELS – PANEL 5					
CARGO RECOGNITION - PANEL 6					

MARKING SCHEDULE

LEGEND:

NOTE 1: Colours of these labels are as detailed in the specification for the particular labels.

M Mandatory Marking required on all packages.

NOTE 2: Priority labels are coloured as under:

NU This Marking NOT USED on this package.

- Priority 1 - Red on white
- Priority 2 - Green on white
- Priority 3 - Blue on white
- Priority 4 - Orange on white

A To be applied where needed.

APPENDIX 2

DANGEROUS GOODS MARKING SCHEDULE (Cont'd)

MARKING REQUIRED	PACKAGE		COLOUR	REFERENCE	
	PRIMARY	OUTER		PARA- GRAPH	ANNEX
CONTRACTUAL - PANEL 7 UN Specification					
VACANT - PANEL 8					
WEIGHT/MEASUREMENT – PANEL 9					
Mass	NU	A	Black	5.11.11.2 (a)	
Volume	NU	A	Black	5.11.11.2 (b)	
Dimensions	NU	A	Black	5.11.11.2 (c)	
ADDITIONAL HANDLING SYMBOLS					
Centre of Gravity	NU	A	Black	5.11.13.2.1	E
Sling Here	NU	A	Black	5.11.13.2.2	E
Do Not Lift	NU	A	Red	5.11.13.2.3	
Deck Stow	NU	A	Black	5.11.13.2.4	

MARKING SCHEDULE

LEGEND:

NOTE 1: Colours of these labels are as detailed in the specification for the particular labels.

M Mandatory Marking required on all packages.

NOTE 2: Priority labels are coloured as under:

- Priority 1 - Red on white
- Priority 2 - Green on white
- Priority 3 - Blue on white
- Priority 4 - Orange on white

NU This Marking NOT USED on this package.

A To be applied where needed.

DEF(AUST)1000C
PART 5
SECTION A
ANNEX B
APPENDIX 2

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ANNEX C

UNIT OF ISSUE CODES

C1. **GENERAL.** The unit of issue codes listed are the authorised codes universally accepted for package markings. All unit of issue codes are in upper case to meet the requirements of stencil cutting systems.

ABBREVIATIONS

UNIT OF ISSUE	CODE	UNIT OF ISSUE	CODE
A		E	
* Ampoule Assembly	AM AY	Each	EA
B		F	
* Bag	BG	Fathom	FM
* Bale	BE	G	
* Bar	BR	Gallon	GL
* Barrel	BL	Grain	GN
Board Foot	BF	Gram	GM
* Bolt	BO	Gross	GR
* Book	BK	Group	GP
* Bottle	BT	H	
* Box	BX	* Hank Hundred	HK HD
C		J	
* Cake	CK	* Jar	JR
* Can	CN	K	
* Carboy	CB	Kilometre	KM
* Cartridge	CA	Kilogram	KG
Centimetre	CM	Kit	KT
* Coil	CL		
* Cone	CE		
* Container	CO		
Cubic Centimetre	CC		
Cubic Metre	CZ		
* Cylinder	CY		

ABBREVIATIONS (Cont'd)

UNIT OF ISSUE	CODE	UNIT OF ISSUE	CODE
D		L	
Dozen	DZ	Length	LG
* Drum	DR	Litre	LI
M		R	
Meal	ME	Ration	RA
Metre	MR	* Reel	RL
Milligram	MG	* Roll	RO
Millilitre	ML		
Millimetre	MM	S	
O		Set	SE
		Sheet	SH
Ounce	OZ	Shot	SO
Outfit	OT	Skein	SK
P		* Skid	SD
		* Spool	SL
* Pack	PK	* Stick	SX
* Package	PG	* Strip	SP
* Packet	PZ	Square	
* Pad	PD	Centimetre	SC
Pair	PR	Square Metre	SM
Phial (See Vial)		T	
Pint	PT	Ten	XX
Plate	PM	Thousand	MX
		* Tube	TU
		Tonne	TE
		V	
		* Vial	VI

* Require Quantitative Expression

ANNEX D
MEDICAL MARKINGS



7690-66-090-7082

COLOUR

Background	- Fern Green
Lettering	(AS 2700-G24)
	- Signal Red
	(AS 2700-R13)
	"Store in a cool place away from heat and direct sunlight".
	- Black
	All other lettering
Border Line	- Black

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DEF(AUST)1000C
PART 5
SECTION A
ANNEX D

MEDICAL SERUM
EXTREMELY URGENT
MUST BE KEPT FROZEN
Store below 0°C
(32°F)

PERISHABLE CONSIGNMENT ICED AThrs

ON DATE.....WITH.....kg OF **DRY ICE**

7690-66-066-4448

COLOUR

- | | |
|-------------|---|
| Background | - White |
| Lettering | - Signal Red (AS 2700-R13)
"Must be kept frozen.
Store below 0°C (32°F)"
"Dry Ice" |
| | - Black
All other lettering |
| Border Line | - Black |

NEXT PAGE BLANK

DEF(AUST)1000C
PART 5
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ANNEX D

MEDICAL SERUM	
EXTREMELY URGENT	
KEEP OUT OF SUN	
Store at	2°-10°C (35°-50°F)
<u>IMPORTANT</u>	
<u>DO NOT FREEZE</u>	
PERISHABLE CONSIGNMENT ICED AThrs	
ON DATE WITHkg OF FRESH WATER ICE	

7690-66-066-4447

COLOUR











Background	-	Canary Yellow (AS 2700-Y11)
Lettering	-	Signal Red (AS 2700-R13)
		"Keep out of sun.
		Store at 2°-10°C (35°-50°F)"
		"Fresh Water Ice"
All other lettering	-	Black
Border Line	-	Black

NEXT PAGE BLANK

DEF(AUST)1000C
PART 5
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ANNEX D









ANNEX E

HANDLING, STOWAGE AND STORAGE MARKINGS

		
USE NO HOOKS	SLING HERE	THIS WAY UP
		
CENTRE OF GRAVITY	KEEP DRY	FRAGILE
		
KEEP AWAY FROM HEAT	PROTECT FROM HEAT AND RADIOACTIVE SOURCES	
		
DESICCATED PACKAGE		DO NOT USE FORKLIFT

ANNEX E

HANDLING, STOWAGE AND STORAGE MARKINGS (Cont'd)

		
STACKING LIMITATION	CLAMP HERE	TEMPERATURE LIMITATION
		
NO HAND TRUCK HERE	DO NOT ROLL	DO NOT CLAMP
 <p>ATTENTION Static sensitive devices. Handle only at static safe work stations. Reusable container. Do not destroy.</p>		 <p>MAGNETIZED MATERIAL KEEP AWAY FROM AIRCRAFT COMPASS DETECTOR UNIT</p>
ELECTROSTATIC SENSITIVE DEVICES NOTE: Black legend on yellow background		MAGNETIZED MATERIALS NOTE: Blue lettering and symbol on white background

ANNEX F

AUSTRALIAN STANDARD MATERIAL ISSUE AND
MOVEMENT PRIORITY SYSTEM (AUSMIMPS)

CONSIGNMENT MARKING FRAME

CONSIGNMENT MARKING FRAME

Consignment Number		PRIORITY
SDD RDD	PACK NUMBER	NUMBER OF PACKS
CONSIGNEE		DIMENSIONS
CONSIGNEE ADDRESS		WEIGHT
MIB CODE		

NOTE: Either SDD OR RDD to be deleted when completed.

COMPLETED
CONSIGNMENT MARKING FRAME

Consignment Number IIIIIIIIIIIIIIIIII XXXXXXXXXXXXXXXXXX		PRIORITY XX XX
SDD XXXXXXXXXXXX RDD XXXXXXXXXXXX	PACK NUMBER XX	NUMBER OF PACKS XX
CONSIGNEE XXXXXXXXXXXXXXXXXX	DIMENSIONS XXXcm x XXX cm x XXX cm XXX in x XXX in x XXX in	
CONSIGNEE ADDRESS XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	WEIGHT XXXXXX KG XXXXXX LB	
MIB CODE IIIIIIIIIIIIIIIIIII XXXXXXXXXXXXXXXXXX		

DEF(AUST)1000C
PART 5
SECTION A
ANNEX F

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ANNEX G

AUSTRALIAN SERVICES CARGO RECOGNITION MARK (ASCRM)

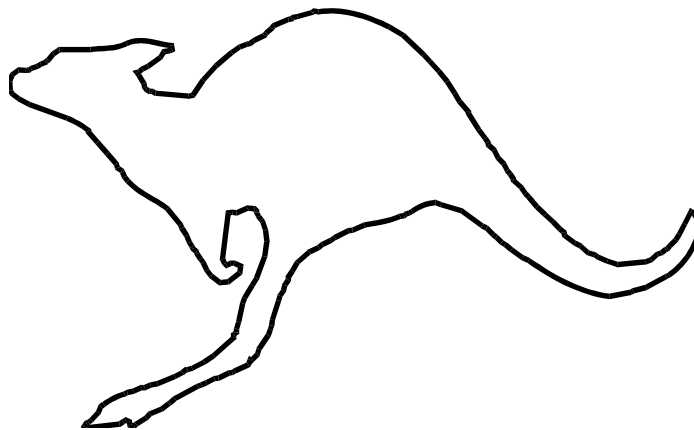


FIGURE 1 RECOGNITION MARK

The recognition mark shall be a combination of the following:

- a. a kangaroo symbol; and
- b. individual Services name in abbreviated form:
 - ie. (i) RAN to denote Navy;
 - (ii) ARMY to denote Army; or
 - (iii) RAAF to denote Air Force.

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APPENDIX 1

UNIT SERIAL NUMBER (USN)

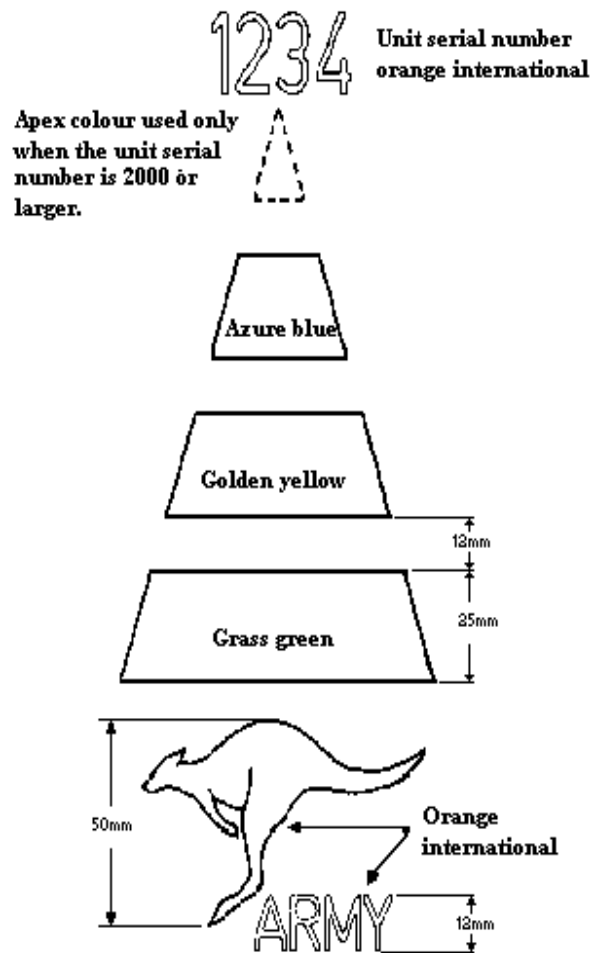


FIGURE 2 UNIT RECOGNITION MARK

FIGURES 3 & 4 EXAMPLES OF MARKING FOR TRUNK LOCKER AND PERSONAL BAGGAGE

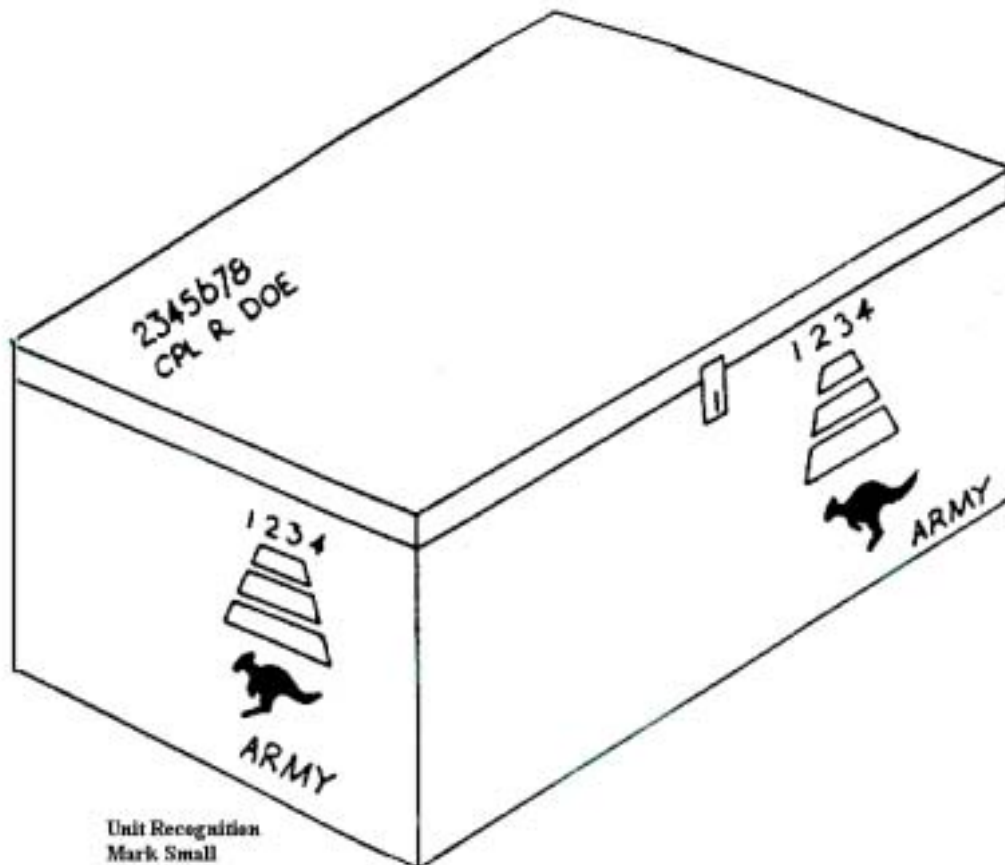


FIGURE 3

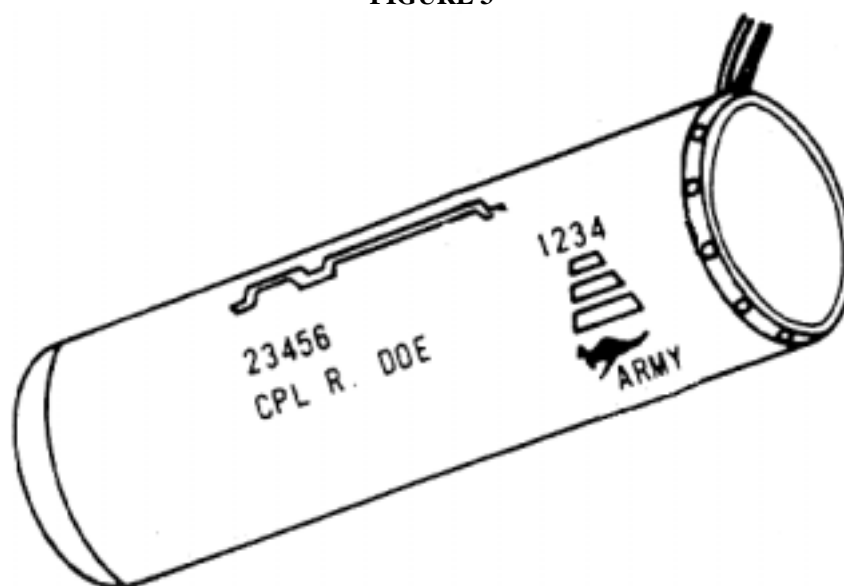


FIGURE 4

ANNEX H

STANDARDISED IDENTIFICATION MARKING FOR STORAGE AND TRANSPORT OF MILITARY CARGO WITHIN THE ABCA ARMIES (AS AGREED TO WITHIN QSTAG 1154)

H1. AGREEMENT

- H1.1 The armies of the United States (US), United Kingdom (UK) and Australia (AS), and the Canadian Forces (CA) have agreed to adopt the general principles and specifications of QSTAG 1154 to standardise the identification marking for storage and transport within the ABCA armies. This will establish unified procedural principles and identification marking for consignments of military cargo for international movement by all international means of transport, except where the move is national in character and is handled exclusively by the nation's own means of transport.

H2. GENERAL

NOTE: Requests for copies of STANAG documentation shall be actioned in accordance with Army Office Instructions Chapter 22.

- H2.1 The following principles will apply:

- a. Subject to overriding security considerations, the system of markings should be the same in peacetime as in time of war.
- b. The system must comply, insofar as practicable, with commercial requirements when it meets military needs.
- c. Existing international and ABCA Standardisation Agreements shall be observed where obligatory and made use of where practicable, in preference to devising new standards, symbols, etc.
- d. This document concerns those markings, which provide essential information to personnel handling materiel during transit or storage. Other markings of distinct national interest are permitted insofar as they do not detract from the clarity of the essential markings.
- e. All markings shall be in BLACK except for surfaces where black is not legible, in which case the colour used shall provide a definite contrast.
- f. All markings shall be simple so that they can be readily applied to a consignment and easily recognised for sorting purposes.
- g. Measurements are expressed to comply with AS 1000: The International System of Units (SI) and its Application. Rounding should be to the next centimetre, to the nearest tenth of a cubic metre, or the nearest kilogram, as applicable.
- h. In the case of air-dropped supplies, the provisions of STANAG 3427 regarding the colour identification shall apply.
- i. Bar Code marking symbology shall be as defined in DEF(AUST)1000, PART 12.
- j. Items requiring controlled temperature conditions while in transit shall also be labelled in accordance with STANAG 3775.

- k. The marking of ammunition shall be in accordance with STANAG 2316 and STANAG 2322.
- l. In the case of Air Transportation of Dangerous cargo, marking prescribed in STANAG 3854 shall apply
- m. All containers of medical materiel for field medical installations shall also be marked in accordance with STANAG 2060

H2.2 Markings and Labels additional to those contained in SECTION A are as follows;

- a. **Consigning Nation.** The National Distinguishing Letters given in STANAG 1059 are to be placed OUTSIDE and to the LEFT of the location of the identification number.
- b. **Port of Discharge.** The seaport or airport of discharge is to be shown in-the-clear per the “Address” marking sequence.
- c. **Sensitive Electronic Devices.** Unit, intermediate, and exterior packs containing sensitive electronic devices shall be marked with a caution label, as shown in FIGURE 1. The symbol and lettering on each label shall be printed in black on a yellow background.

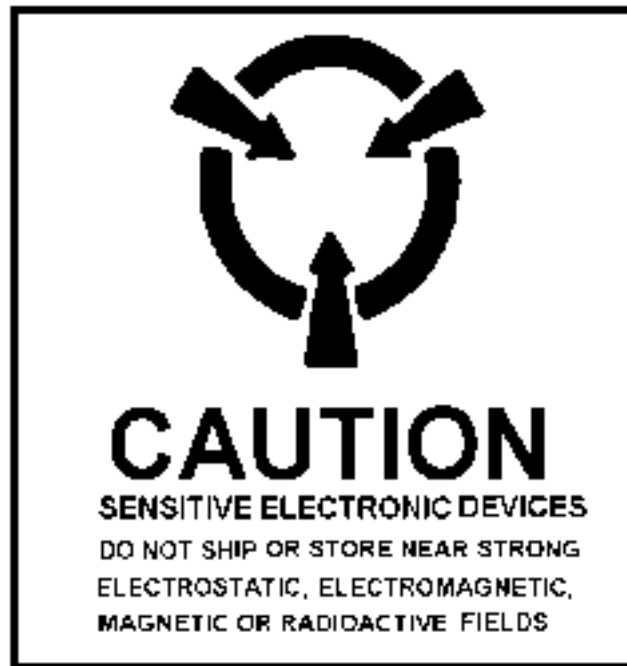


FIGURE 1 Sensitive Electronic Devices Caution Label

H3. DOCUMENTS

H3.1 The required documentation shall be applied and positioned as specified below:

- a. **Packing Lists.** Each set, kit and outfit (SKO) having unlike stock numbered items, but which are identified by a single stock number, shall have a packing list sealed in a water-resistant envelope and securely attached to the exterior surface to each container. When specified in the contract or purchase order, an additional copy of the packaging list will also be placed inside the container. When applicable or specified in the contract or purchase order, the packing list shall be secured prominently to the top of contents inside the shipping container. In addition, each SKO comprising a palletised-unitised load or consolidation container shall have the packing list attached to the outside of each container.
 - (i) Nonstock-numbered parts, accessories, or attaching hardware shall be identified by part number or item nomenclature and shall be listed on the appropriate packing list.
 - (ii) Shipment of classified material shall have the packing list inside the container rather than having it affixed to the outside of the container.
- b. **Shipping documents.** The documents shall be applied and positioned as specified below. When space permits, shipping documents being placed on the container's exterior surface shall be affixed to the identification-marked side of the container.
 - (i) For shipments of single items, one legible copy of the shipping document to each item shall be inside the container. At least one legible copy of the shipping documents applicable to each item shall be placed in a weather-resistant envelope and attached to the outside of the container.
 - (ii) When the storage container is used as the shipping container, the one copy normally placed inside the container shall be included with the copy attached to the exterior of the shipping container.
 - (iii) For shipments of multiple line items in a consolidation container, one legible copy shall be placed in a transparent, water-resistant bag/envelope in such a manner that the NSN is visible, then attached to the package applicable to each requisition. At least one copy applicable to each requisition shall be placed in a water-resistant envelope and attached to the exterior surface of the consolidation container.
 - (iv) At least one legible copy will be furnished to the nation's designated recipient for shipment status.
- c. **Documents accompanying shipments of unboxed items including vehicles.** A minimum of two legible copies of the required documents shall be provided and securely attached in or on the vehicle or item as follows:
 - (i) Place at least one legible copy of the shipping document and one legible copy of the preservation/depreservation guide within a sealed bag or within a water-resistant envelope. Conspicuously attach the bag or envelope to the central-most location within the vehicle or item.
 - (ii) Place the remaining copy of the shipping document and the preservation/depreservation guide within a sealed bag with a water-resistant envelope and securely attach it within the immediate area of the shipping address on the vehicle or item.

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APPENDIX 1

ABCA MARKING SEQUENCE

A1. IDENTIFICATION

- Line 1: NATO Stock Number.
- Line 2: Manufacturers Part Number or Serial Number (1).
- Line 3: Item Name.
- Line 4: Quantity/Unit Issue.
- Line 5: Contract Number or Batch Number.
- Line 6: Level of Packaging and Date Packed.
- Line 7: Gross Mass and Cube.
- Line 8: Proper Shipping Name (Dangerous/Hazardous Cargo Only and United Nations Identification Number of Materiel).
- Line 9: Expiration or Shelf Life Date When Required.

Example is shown at FIGURE 1.

A2. CONTRACT DATA

Line 1: Contract (delivery order number, when specified) or purchase order number or modification for change order number and log number, when applicable.

Line 2: Name and address of prime contractor. (When the supplies are shipped from a subcontractor, the name and address of the prime contractor only shall be used).

Note. For clothing and textile items, the following markings are required:

- shipment number;
- name and address or manufacturer (if other than prime contractor); and
- container number consecutively numbered from each shipping point for duration of contract.

A3. ADDRESS

Line: Consignment (shipment) Identification Number (Bar Code, as applicable)
or

Block: (2) Required Delivery Date (RDD), Project Code (optional), and
Priority Mark from Consignor
Ship to/Port of Embarkation (POE) (optional)
To Consignee or mark for (Bar Code, as applicable)
Mass and cube
Package Number (Bar Code, as applicable), Total Units/Pieces
Date Shipped

- (1) When specified in the contract or purchase order or when the NSN is not available.
- (2) List of applicable sequence

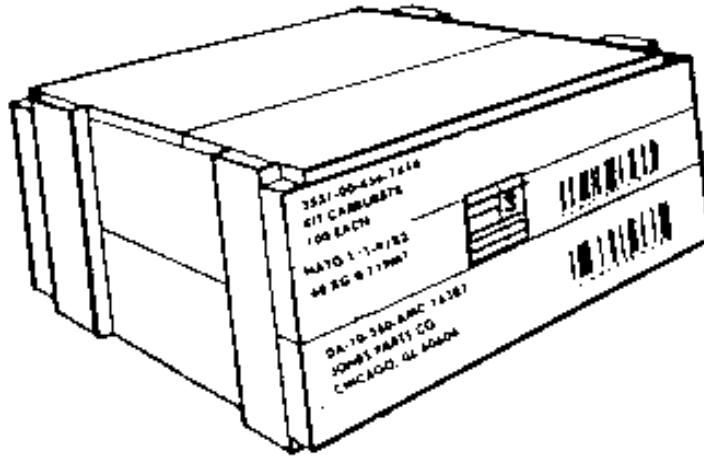


FIGURE 1 Example of ABCA Marking Sequence

APPENDIX 2

SUMMARY OF MARKING REQUIREMENTS

TYPE OF MARKING	UNIT PACK	INTER-MEDIATE PACK	SHIPPING CONTAINER	REFERENCE	
				PARAGRAPH(S)	PAGE(S)
Bar Code	*	*	*	5.1.10 5.6.4	8 10
Centre of Gravity	-	-	*	5.11.13.2.1 5.11.13.2.5	20 20
Commodity Identification	x	x	x	5.11.4	13
Consignee	-	-	x	5.11.8.10	17
Consigning Nation	-	-	x	H2.2a	62
Contract Data	x	x	x	5.11.10	18
Cube	-	-	x	5.11.11.2(b)	19
Date Packed	x	x	x	5.11.10.1(b)	19
Electrostatic discharge sensitive devices	x	*	*	5.11.6.11	14 DEF(AU-ST) 1000: PART 7
Handling /Storage Symbols	*	*	x	5.11.6 5.11.13	14 20
Identification Number	-	-	x	5.1.13.1	8
Level of requirements for packaging	x	x	x	5.11.7.9	16
Lift points	-	-	x	5.11.13.2.6	20
Load Bearing Areas	-	-	x	5.11.13.2.6	20
Marking for Dangerous Goods	*	*	*	5.11.5.2	14
Manufacturers Part Number	*	*	*	5.11.7.6	15
Gross Mass	-	-	*	5.11.11.2(a)	19
NATO Stock Number	x	x	x	5.11.4.2 Appendix 1	13 23
Outside Dimensions	-	-	*	5.11.11.2(c)	19

x = Mandatory markings.

* = As applicable, see respective reference.

- = Not applicable unless specified in the contract or purchase order.

APPENDIX 2

SUMMARY OF MARKING REQUIREMENTS (Cont'd)

TYPE OF MARKING	UNIT PACK	INTER-MEDIATE PACK	SHIPPING CONTAINER	REFERENCE	
				PARAGRAPH(S)	PAGE(S)
Package Numbers	*	*	*	5.1.13	8
Port of Discharge	-	-	x	5.11.8.10 H2.2b	17 62
Priority Marking	-	-	x	5.11.8.2	16
Proper Shipping Name	*	*	*	5.11.1 ANNEX B	12 37
Purchase order Number	*	*	*	5.11.4.2 (3)	13
Quantity	x	x	x	5.11.4.2(c)	13
Sensitive Electronic Devices	*	*	x	H2.2c	62
Storage Life Markings	*	*	*	5.11.7.8	15
Sling Points	-	-	*	5.11.13.2.2 5.11.13.2.6	20 20
Unit Issue	x	x	x	5.11.4.2(c)	13
Warning Labels	*	*	*	5.11.5	14
	*	*	*	5.11.7.13	16

x = Mandatory markings.

* = As applicable, see respective reference.

- = Not applicable unless specified in the contract or purchase order.

DATA SHEET No 1

BROAD ARROW SYMBOL

1. SCOPE

- 1.1 The broad arrow has been adopted as one symbol to denote ownership of an item by the Australian Government. Other markings eg Australian Coat of Arms, single or Tri-Service badges may be used in particular cases instead of the broad arrow.

2. REQUIREMENTS

2.1 Marking

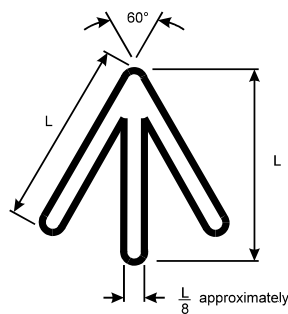
- 2.1.1 All Service stores, equipment and re-usable containers shall be marked with the broad arrow symbol, as shown in FIGURE 1, when instructed to do so by the Design or Ordering Authority.

2.2 Method of Application

- 2.2.1 The symbol shall be applied by one of the following methods:
- applied directly to the surface of the item by an approved process such as metal stamp, vibro peening, acid, electric or electrochemical etching, embossing, forging, blasting, casting, moulding or indelible ink marking;
 - by application to a plate and securing the plate to the item; or
 - by decalcomania transfer, foil label, metal wraparound tag, stencil or silk screen.

2.3 Compatibility

- 2.3.1 Marking materials creating hazardous conditions shall not be used. The marking of items shall be accomplished in a manner, which will not adversely affect the life or utility of the item.



STANDARD SIZES	
Overall length "L" in millimetres	8, 16, 24, 40, 56, 80, 96

FIGURE 1

DATA SHEET No 2

AIR ELIGIBILITY (OPTIONAL) MARKING (AEM) SYMBOL

1. SCOPE

1.1. With effect from 1 January 2004, dangerous goods packagings for transport by air, including those used for limited quantities can be marked (optional, IATA addendum January 2004) to indicate that the shipper has determined that the packaging meets the applicable air transport UN requirements.

1.2. Further clarification on this amendment is available at the following URL:

<http://www.iata.org/dangerousgoods/index>

2. REQUIREMENTS

2.1. Marking

2.1.1. Dangerous goods outer packagings of Service stores, subject to air transport by commercial or service air, can be marked with the AEM, as shown in FIGURE 1.

2.2. Method of Application

2.2.1. The marking symbol shall be durable, legible and of such a size relative to the packaging so as to be readily visible. The marking must include the symbol consisting of an aircraft with a circle as shown in Figure 1 and may include the words - Air Eligible.

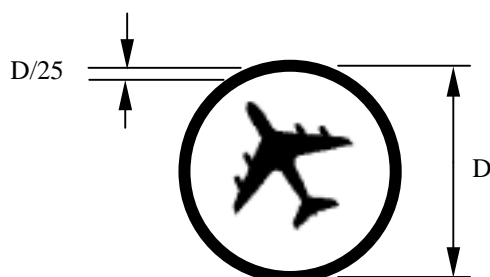
2.3. Location of Marking

2.3.1. The marking symbol must be placed on the packaging adjacent to the Proper Shipping Name and UN number markings. For limited quantity packagings adjacent to the 'LIMITED QUANTITY' or 'LTD QTY' marking.

2.3.2. Markings must be so placed on the packagings that they are not covered or obscured by any part of or attachment to the packaging or any other label or marking

2.4. Compatibility

2.4.1. Marking materials creating hazardous conditions shall not be used. The marking of items shall be accomplished in a manner, which will not adversely affect the life or utility of the packaging.



STANDARD SIZES	
Overall diameter "D" in millimetres	25, 50, 75

FIGURE 1 AIR ELIGIBILITY MARKING SYMBOL

AL1

DOCUMENT IMPROVEMENT PROPOSAL

DEF(AUST)1000C ADF PACKAGING
PART 5 - MARKING OF PACKAGES

The purpose of this form is to solicit comments, which will assist in maintaining the above document as both practical and realistic. When completed, the form and any additional papers, should be forwarded to:

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Land Engineering Agency
Defence Plaza Melbourne
3rd Floor 661 Bourke St,
MELBOURNE VIC 3000

NB Comments submitted do not constitute or imply authorisation to waive any requirement of the document or to amend contractual requirements.

- 1. Has any part of this document created problems or required interpretation in use? State paragraph no(s) and any rewording suggested.**

- 2. Has any new technology rendered any process obsolete? Suggestions supported by examples are welcome where the new process/hardware has proved satisfactory.**

- 3. Comments on any requirements considered to be too rigid/too expensive.**

- 4. Remarks (attach any relevant data, which may be of use in improving this document).**

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Requests for copies of this Standard, or certain of the listed Applicable Documents, may be directed to the appropriate source listed below:

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Attention: NMR Standards Centre
Telephone: (02) 266 2906/6266
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DEPARTMENT OF DEFENCE (Land)

Land Engineering Agency
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DEPARTMENT OF DEFENCE (Air)

Specifications and Standards
Defence Air Publications Agency
RAAF Williams
LAVERTON VIC 3027
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DEFENCE RESTRICTED NETWORK (DRN)

Army Standardisation:

<http://leaweb.lsd.defence.gov.au/SPECS/Triservice/Directory.htm>

Defence Air Publications Agency (DAPA)

<http://wilap006.sor.defence.gov.au/SpecStds/htmlfiles/Specstd.htm>

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