

MIL-H-83797/1
1 AUGUST 1974
SUPERSEDING
MS87027(AV)
10 MAR 1969

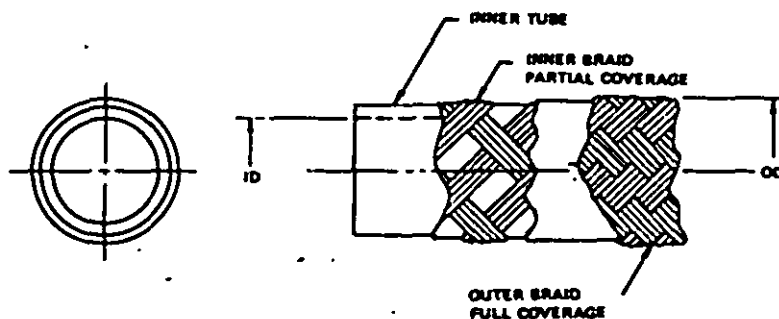
MILITARY SPECIFICATION SHEET

**HOSE, RUBBER, LIGHTWEIGHT, MEDIUM PRESSURE, FUEL AND
OIL RESISTANT**

**This specification is approved for use by all Departments
and Agencies of the Department of Defense**

The complete requirements for procuring the hose described herein shall consist of this document and the latest issue of specification MIL-H-83797.

MIL-H-83797/1



| HOSE SIZE | EQUIV. OD TUBE | ID INNER TUBE | OD OVER BRAID | CONC. OD TO ID TIR | BRAID DETAILS | | WT. MAX LBS/LN. |
|-----------|----------------|---------------|---------------|--------------------|---------------|-------------|-----------------|
| | | | | | INNER BRAID | OUTER BRAID | |
| | | | | | WIRE OD | WIRE OD | |
| -3 | 3/16 | .184 ± .015 | .375 ± .022 | .020 | .008 | .008 | .0077 |
| -4 | 1/4 | .219 ± .015 | .440 ± .022 | .020 | .008 | .008 | .0086 |
| -6 | 5/16 | .281 ± .015 | .496 ± .022 | .020 | .008 | .008 | .0120 |
| -8 | 3/8 | .344 ± .015 | .545 ± .022 | .020 | .008 | .008 | .0128 |
| -8 | 1/2 | .438 ± .022 | .651 ± .022 | .020 | .008 | .008 | .0141 |
| -10 | 5/8 | .542 ± .022 | .787 ± .022 | .020 | .008 | .008 | .0172 |
| -12 | 3/4 | .688 ± .022 | .938 ± .022 | .020 | .008 | .008 | .0237 |
| -16 | 1 | .875 ± .031 | 1.184 ± .031 | .020 | .010 | .008 | .0317 |
| -20 | 1-1/4 | 1.125 ± .031 | 1.437 ± .031 | .020 | .010 | .010 | .0408 |
| -24 | 1-1/2 | 1.375 ± .031 | 1.703 ± .031 | .020 | .018 | .010 | .0542 |
| -32 | 2 | 1.773 ± .033 | 2.101 ± .038 | .020 | .018 | .012 | .0817 |

NOTES

1. MATERIALS AND CONSTRUCTION: SEAMLESS COMPOUNDED INNER TUBE OF OIL-RESISTANT SYNTHETIC RUBBER REINFORCED WITH 19-8 CORROSION RESISTANT STEEL IN A MANNER TO MEET REQUIREMENTS OF MIL-H-83797 AND TO RETAIN THE SPECIFIED FITTINGS WITHOUT LEAKAGE OR OTHER MALFUNCTION WHEN TESTED AS SPECIFIED IN MIL-H-83797.
2. HOSE IS FOR USE WITH M83796/1 THROUGH M83796/9 FITTINGS IN M83796/1 THROUGH M83796/9 ASSEMBLIES.
3. HOSE SHOULD BE REQUESTED IN BULK QUANTITIES, AND FIELD MAINTENANCE UNITS FABRICATED TO SPECIFIC LENGTHS. PART NUMBERS FOR SPECIFIC LENGTHS SHALL BE USED IN ORDERING ONLY WHEN THE NEED FOR CUT SPECIFIC LENGTHS EXCEEDS THE FIELD MAINTENANCE ELEMENT CAPABILITY. EXAMPLES OF PART NUMBERS:

M83797/14 IR

RANDOM LENGTHS AS SPECIFIED IN MIL-H-83797

HOSE SIZE

| | | | | | | | | | | | |
|-----------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| DASH NO. | -3 | -4 | -6 | -8 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| SIZE CODE | B | E | F | G | H | J | K | M | N | P | R |

M83797A - M0124

EIGHTS OF AN INCH

INCHES

HOSE SIZE

| | | | | | | | | | | |
|-----------|----|----|----|----|-----|-----|-----|-----|-----|-----|
| DASH NO. | -3 | -4 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| SIZE CODE | B | E | F | G | H | J | K | M | N | P |

4. IDENTIFICATION: SEE PROCUREMENT SPECIFICATION.

5. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS, ± .010.

6. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

ML-H-83797/1

CUSTODIAN:
AIR FORCE - 82
ARMY - AV

REVIEW ACTIVITIES:
ARMY - AT, ME

USER ACTIVITIES:
AIR FORCE - 11

PREPARING ACTIVITY:
AIR FORCE - 82

PROJECT NO. 4720-0382

| SPECIFICATION ANALYSIS SHEET | | Form Approved Budget Bureau No. 22-R255 |
|---|-----------------|--|
| INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay, and, at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements. | | |
| SPECIFICATION | | |
| ORGANIZATION | | |
| CITY AND STATE | CONTRACT NUMBER | |
| MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT | | |
| 1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A. GIVE PARAGRAPH NUMBER AND WORDING. | | |
| B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES | | |
| 2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID | | |
| 3. IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?) | | |
| 4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity) | | |
| SUBMITTED BY (Printed or typed name and activity - Optional) | | DATE |

DD FORM 1426
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.