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**REV.  
B**

**SAE AS9142**

FEDERAL SUPPLY CLASS  
5330

**RATIONALE**

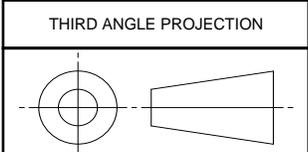
AS9142B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9142A(ASG), AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

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CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE



**AEROSPACE STANDARD**

GASKET - METAL O-RING,  
.062 TUBE X .006 WALL, CRES -  
UNS S32100

**SAE AS9142**  
SHEET 1 OF 4

**REV.  
B**

ISSUED 1998-05 REVISED 2004-07 REAFFIRMED 2012-11

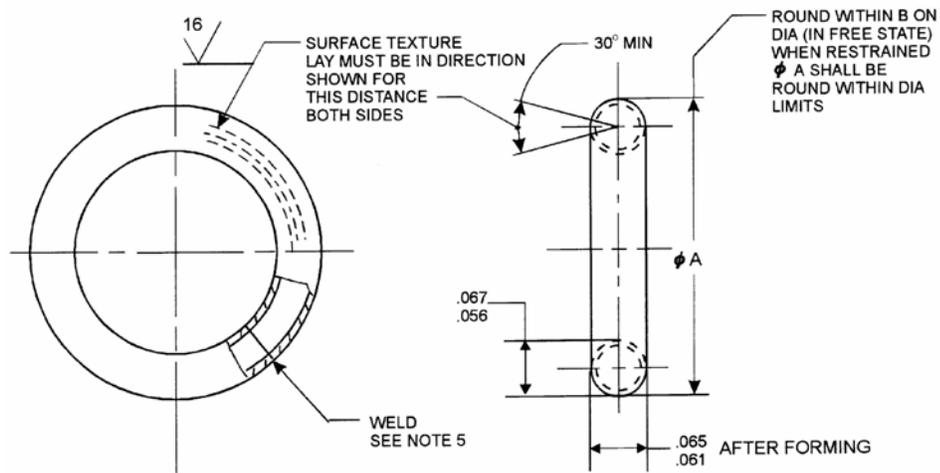


FIGURE 1

TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NO.     | A<br>+.005<br>-.000 | TOL<br>B | APPROX.<br>MASS<br>LB/100 | PART NO.    | A<br>+.005<br>-.000 | TOL<br>B | APPROX.<br>MASS<br>LB/100 |
|--------------|---------------------|----------|---------------------------|-------------|---------------------|----------|---------------------------|
| * MS9142-013 | .438                | .030     | .039                      | *MS9142-031 | 1.000               | .030     | .090                      |
| MS9142-014   | .469                | .030     | .042                      | MS9142-032  | 1.031               | .030     | .093                      |
| * MS9142-015 | .500                | .030     | .045                      | MS9142-033  | 1.062               | .030     | .095                      |
| MS9142-016   | .531                | .030     | .048                      | MS9142-034  | 1.094               | .030     | .098                      |
| * MS9142-017 | .562                | .030     | .050                      | *MS9142-035 | 1.125               | .030     | .101                      |
| MS9142-018   | .594                | .030     | .053                      | MS9142-036  | 1.156               | .030     | .104                      |
| * MS9142-019 | .625                | .030     | .056                      | MS9142-037  | 1.188               | .030     | .107                      |
| MS9142-020   | .656                | .030     | .059                      | MS9142-038  | 1.219               | .030     | .110                      |
| * MS9142-021 | .688                | .030     | .062                      | *MS9142-039 | 1.250               | .030     | .112                      |
| MS9142-022   | .719                | .030     | .065                      | MS9142-040  | 1.312               | .030     | .118                      |
| * MS9142-023 | .750                | .030     | .067                      | *MS9142-041 | 1.375               | .030     | .124                      |
| MS9142-024   | .781                | .030     | .070                      | MS9142-042  | 1.438               | .030     | .129                      |
| MS9142-025   | .812                | .030     | .073                      |             |                     |          |                           |
| MS9142-026   | .844                | .030     | .076                      |             |                     |          |                           |
| * MS9142-027 | .875                | .030     | .079                      |             |                     |          |                           |
| MS9142-028   | .906                | .030     | .081                      |             |                     |          |                           |
| MS9142-029   | .938                | .030     | .084                      |             |                     |          |                           |
| MS9142-030   | .969                | .030     | .087                      |             |                     |          |                           |

TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)

| PART NO.     | A<br>+.005<br>-.000 | TOL<br>B | APPROX.<br>MASS<br>LB/100 | PART NO.     | A<br>+.005<br>-.000 | TOL<br>B | APPROX.<br>MASS<br>LB/100 |
|--------------|---------------------|----------|---------------------------|--------------|---------------------|----------|---------------------------|
| * MS9142-043 | 1.500               | .030     | .135                      | MS9142-064   | 2.812               | .060     | .253                      |
| MS9142-044   | 1.562               | .030     | .140                      | MS9142-065   | 2.875               | .060     | .259                      |
| * MS9142-045 | 1.625               | .030     | .146                      | MS9142-066   | 2.938               | .060     | .264                      |
| MS9142-046   | 1.688               | .030     | .152                      | * MS9142-067 | 3.000               | .060     | .270                      |
| * MS9142-047 | 1.750               | .030     | .157                      | MS9142-069   | 3.125               | .060     | .281                      |
| MS9142-048   | 1.812               | .030     | .163                      | MS9142-071   | 3.250               | .060     | .292                      |
| MS9142-049   | 1.875               | .030     | .169                      | MS9142-073   | 3.375               | .060     | .304                      |
| MS9142-050   | 1.938               | .030     | .174                      | * MS9142-075 | 3.500               | .060     | .315                      |
| * MS9142-051 | 2.000               | .030     | .180                      | MS9142-077   | 3.625               | .060     | .326                      |
| MS9142-052   | 2.062               | .030     | .185                      | MS9142-079   | 3.750               | .060     | .337                      |
| MS9142-053   | 2.125               | .030     | .191                      | MS9142-081   | 3.875               | .060     | .349                      |
| MS9142-054   | 2.188               | .030     | .197                      | * MS9142-083 | 4.000               | .060     | .360                      |
| * MS9142-055 | 2.250               | .030     | .202                      | MS9142-085   | 4.125               | .060     | .371                      |
| MS9142-056   | 2.312               | .030     | .208                      | MS9142-087   | 4.250               | .060     | .382                      |
| MS9142-057   | 2.375               | .030     | .214                      | MS9142-089   | 4.375               | .060     | .394                      |
| MS9142-058   | 2.438               | .030     | .219                      | *MS9142-091  | 4.500               | .060     | .405                      |
| * MS9142-059 | 2.500               | .030     | .225                      | MS9142-093   | 4.625               | .060     | .416                      |
| MS9142-060   | 2.562               | .060     | .230                      | MS9142-095   | 4.750               | .060     | .427                      |
| MS9142-061   | 2.625               | .060     | .236                      | MS9142-097   | 4.875               | .060     | .439                      |
| MS9142-062   | 2.688               | .060     | .242                      | *MS9142-099  | 5.000               | .060     | .450                      |
| *MS9142-063  | 2.750               | .060     | .247                      |              |                     |          |                           |

NOTES:

- \*PREFERRED SIZES.
- MATERIAL: STEEL, CORROSION AND HEAT RESISTANT, TUBING AMS 5570 (UNS S32100) OR AMS 5576 (UNS S32100). TUBE SIZE .061-.064 DIA; WALL THICKNESS .005-.007.
- PROCUREMENT SPECIFICATION: AS7325.
- RING SHALL BE FLAT WITHIN B.
- FINISH WELD FLUSH WITH TUBE OD. SMOOTH BLEND WITHIN .125 OF WELD. DIMENSIONS AT BLEND SHALL NOT BE MORE THAN .004 BELOW ADJACENT SURFACES.
- IDENTIFICATION: MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION ON CONTAINER.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
- DIMENSIONS IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.

|   |   |                                   |                         |
|---|---|-----------------------------------|-------------------------|
| <br>An SAE International Group | <b>AEROSPACE STANDARD</b>   | <b>SAE AS9142</b><br>SHEET 3 OF 4 | <b>REV.</b><br><b>B</b> |
|   | GASKET - METAL O-RING,<br>.062 TUBE X .006 WALL, CRES -<br>UNS S32100 |                                   |                         |