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AS5729™

## RATIONALE

FEDERAL SUPPLY CLASS  
5331

REVISION B OF THIS DOCUMENT REFLECTS VARIOUS TECHNICAL AND EDITORIAL CORRECTIONS AND IMPROVEMENTS IDENTIFIED DURING ITS FIVE-YEAR REVIEW.

### 1. SCOPE

THIS STANDARD ESTABLISHES THE DIMENSIONAL AND VISUAL QUALITY REQUIREMENTS, LOT REQUIREMENTS AND PACKAGING AND LABELING REQUIREMENTS FOR O-RINGS MOLDED FROM AMS7379 FLUOROCARBON (FKM) RUBBER. IT SHALL BE USED FOR PROCUREMENT PURPOSES.

#### 1.1 APPLICATION

THIS MATERIAL HAS EXHIBITED EXCELLENT LOW TEMPERATURE FUNCTIONALITY ALONG WITH RESISTANCE TO A VARIETY OF GAS TURBINE ENGINE OILS, INCLUDING HIGH THERMAL STABILITY (HTS) OILS, FUELS, AND HYDRAULIC FLUIDS, BUT USAGE IS NOT LIMITED TO SUCH APPLICATIONS. THIS MATERIAL HAS A TYPICAL SERVICE TEMPERATURE RANGE OF -50 TO +400 °F (-45 TO +204 °C). THE SERVICE TEMPERATURE RANGE OF THE MATERIAL IS A GENERAL TEMPERATURE RANGE, BUT THE PRESENCE OF PARTICULAR FLUIDS AND DESIGN PARAMETERS MAY MODIFY THIS RANGE. EACH APPLICATION SHOULD BE CONSIDERED SEPARATELY. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THAT THIS SPECIFICATION IS APPROPRIATE FOR THE ENVIRONMENTS (TEMPERATURE RANGE, FLUIDS EXPOSURE, ETC.) IN WHICH IT IS SOUGHT TO BE USED.

### 2. APPLICABLE REFERENCES

THE FOLLOWING PUBLICATIONS FORM A PART OF THIS DOCUMENT TO THE EXTENT SPECIFIED HEREIN. THE LATEST ISSUE OF SAE PUBLICATIONS SHALL APPLY. THE APPLICABLE ISSUE OF OTHER PUBLICATIONS SHALL BE THE ISSUE IN EFFECT ON THE DATE OF THE PURCHASE ORDER. IN THE EVENT OF CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND REFERENCES CITED HEREIN, THE TEXT OF THIS DOCUMENT TAKES PRECEDENCE. NOTHING IN THIS DOCUMENT, HOWEVER, SUPERSEDES APPLICABLE LAWS AND REGULATIONS UNLESS A SPECIFIC EXEMPTION HAS BEEN OBTAINED.

#### 2.1 SAE PUBLICATIONS

AVAILABLE FROM SAE, 400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096-0001, TEL: 877-606-7323 (INSIDE U.S. AND CANADA) OR +1 724-776-4970 (OUTSIDE U.S.), [WWW.SAE.ORG](http://www.sae.org)

AMS2817 PACKAGING AND IDENTIFICATION OF MOLDED ELASTOMERIC SEALS AND SEALING COMPONENTS

AMS7379 RUBBER, FLUOROCARBON ELASTOMER (FKM) LOW TEMPERATURE SEALING TG -40 °F (-40 °C) 70 TO 80 TYPE "A" HARDNESS FOR ELASTOMER SEALS IN AIRCRAFT ENGINE OIL, FUEL AND HYDRAULICS SYSTEMS

AS5316 STORAGE OF ELASTOMERS AND SEAL ASSEMBLIES WHICH INCLUDE AN ELASTOMER ELEMENT BEFORE THE HARDWARE ASSEMBLY

AS5798 AEROSPACE SIZE STANDARD FOR OVERSIZE O-RINGS

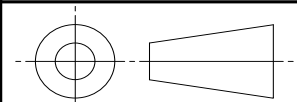
#### 2.2 ASQ PUBLICATIONS

AVAILABLE FROM AMERICAN SOCIETY FOR QUALITY, 600 NORTH PLANKINTON AVENUE, MILWAUKEE, WI 53203 OR [WWW.ASQ.ORG](http://www.asq.org)

ANSI/ASQ Z1.4 SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS5729B/>

THIRD ANGLE PROJECTION



CUSTODIAN: A-6/A-6C2

PROCUREMENT SPECIFICATION: NONE



## AEROSPACE STANDARD

O-RING MOLDED FROM AMS7379  
FLUOROCARBON (FKM) MATERIAL

AS5729™  
SHEET 1 OF 13

REV.  
B

## 2.3 ASME PUBLICATIONS

AVAILABLE FROM ASME, TWO PARK AVENUE, NEW YORK, NY 10016-5990, TEL: +1 800-843-2763,  
[WWW.CUSTOMERCARE@ASME.ORG](mailto:WWW.CUSTOMERCARE@ASME.ORG).

ASME Y14.5-1994 DIMENSIONING AND TOLERANCING REQUIREMENTS

## 2.4 ASTM PUBLICATIONS

AVAILABLE FROM ASTM INTERNATIONAL, 100 BARR HARBOR DRIVE, P.O. BOX C700, WEST CONSHOHOCKEN, PA 19428-2959, TEL: 610-832-9585, [WWW.ASTM.ORG](http://WWW.ASTM.ORG).

ASTM D910 STANDARD SPECIFICATION FOR LEADED AVIATION GASOLINES

ASTM D1655 STANDARD SPECIFICATION FOR AVIATION TURBINE FUELS

## 2.5 ISO PUBLICATIONS

COPIES OF THESE DOCUMENTS ARE AVAILABLE ONLINE AT [HTTPS://WEBSTORE.ANSI.ORG](https://webstore.ansi.org).

ISO 3601-1 FLUID POWER SYSTEMS - O-RINGS - PART 1: INSIDE DIAMETERS, CROSS-SECTIONS, TOLERANCES AND DESIGNATION CODES

ISO 3601-3 FLUID POWER SYSTEMS - O-RINGS - PART 3: QUALITY ACCEPTANCE CRITERIA

## 2.6 U.S. GOVERNMENT PUBLICATIONS

COPIES OF THESE DOCUMENTS ARE AVAILABLE ONLINE AT [HTTPS://QUICKSEARCH.DLA.MIL](https://quicksearch.dla.mil).

MIL-DTL-5624 TURBINE FUEL, AVIATION, GRADES JP-4 AND JP-5

MIL-DTL-83133 TURBINE FUEL, AVIATION, KEROSENE TYPE, JP-8 (NATO F-34), NATO F-35, AND JP-8+100 (NATO F-37)

MIL-PRF-5606 HYDRAULIC FLUID, PETROLEUM BASE; AIRCRAFT, MISSILE, AND ORDNANCE

MIL-PRF-7808 LUBRICATING OIL, AIRCRAFT TURBINE ENGINE, SYNTHETIC BASE

MIL-PRF-23699 LUBRICATING OIL, AIRCRAFT TURBINE ENGINE, SYNTHETIC BASE, NATO CODE NUMBERS: O-152, O-154, O-156, AND O-167

MIL-PRF-83282 HYDRAULIC FLUID, FIRE RESISTANT, SYNTHETIC HYDROCARBON BASE, METRIC, NATO CODE NUMBER H-537

MIL-PRF-87257 HYDRAULIC FLUID, FIRE RESISTANT, LOW TEMPERATURE, SYNTHETIC HYDROCARBON BASE, AIRCRAFT AND MISSILE

## 2.7 UK MINISTRY OF DEFENCE STANDARDS

AVAILABLE FROM UK DEFENCE STANDARDIZATION, KENSINGTON HOUSE, ROOM 1138, 65 BROWN STREET, GLASGOW G2 8EX, UNITED KINGDOM [WWW.GOV.UK](http://WWW.GOV.UK).

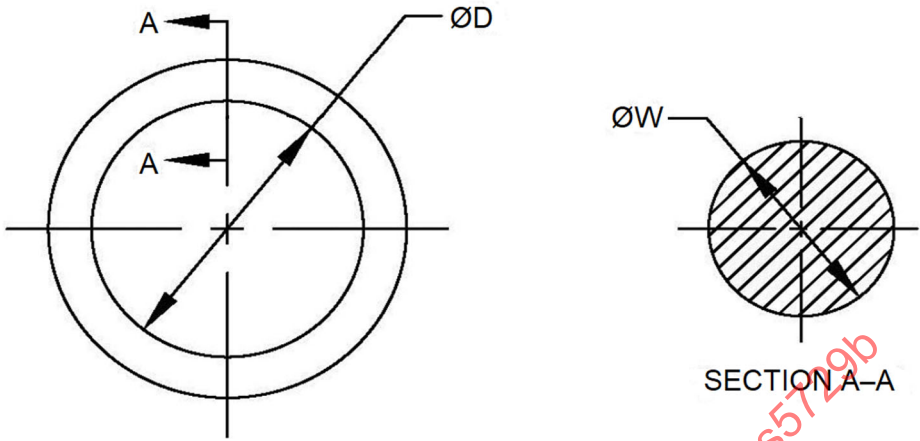
DEF STAN 91-91 TURBINE FUEL, KEROSENE TYPE, JET A-1 NATO CODE: F-35

|                                                                                     |                                                           |                                 |                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------|-------------------------|
|  | <b>AEROSPACE STANDARD</b>                                 | <b>AS5729™</b><br>SHEET 2 OF 13 | <b>REV.</b><br><b>B</b> |
|                                                                                     | O-RING MOLDED FROM AMS7379<br>FLUOROCARBON (FKM) MATERIAL |                                 |                         |

3. O-RING PART NUMBERS, DIMENSIONS, AND MASSES

FIGURE 1 ILLUSTRATES THE O-RING DIMENSIONS THAT ARE USED IN THIS STANDARD.

TABLE 1 PROVIDES THE PART NUMBERS, DIMENSIONS AND APPROXIMATE MASSES FOR AEROSPACE STANDARD SIZE O-RINGS.



NOTE: DIMENSIONS AND TOLERANCES AS PER ASME Y14.5-1994

FIGURE 1 - O-RING DIMENSIONS: WIDTH (ØW) AND INSIDE DIAMETER (ØD)

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TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS

| BASIC NO.<br>AS5729<br>11/ 12/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 001                                         | .025              | .033              | 0.64              | 0.84              | .037              | .043              | 0.94              | 1.09              | 0.002                    | 0.001                      |
| 002                                         | .038              | .046              | 0.97              | 1.17              | .047              | .053              | 1.19              | 1.35              | 0.003                    | 0.001                      |
| 003                                         | .052              | .060              | 1.32              | 1.52              | .057              | .063              | 1.45              | 1.60              | 0.005                    | 0.002                      |
| 004                                         | .065              | .075              | 1.65              | 1.91              | .067              | .073              | 1.70              | 1.85              | 0.007                    | 0.003                      |
| 005                                         | .096              | .106              | 2.44              | 2.69              | .067              | .073              | 1.70              | 1.85              | 0.008                    | 0.004                      |
| 006                                         | .109              | .119              | 2.77              | 3.02              | .067              | .073              | 1.70              | 1.85              | 0.009                    | 0.004                      |
| 007                                         | .140              | .150              | 3.56              | 3.81              | .067              | .073              | 1.70              | 1.85              | 0.009                    | 0.004                      |
| 008                                         | .171              | .181              | 4.34              | 4.60              | .067              | .073              | 1.70              | 1.85              | 0.010                    | 0.005                      |
| 009                                         | .203              | .213              | 5.16              | 5.41              | .067              | .073              | 1.70              | 1.85              | 0.011                    | 0.005                      |
| 010                                         | .234              | .244              | 5.94              | 6.20              | .067              | .073              | 1.70              | 1.85              | 0.012                    | 0.005                      |
| 011                                         | .296              | .306              | 7.52              | 7.77              | .067              | .073              | 1.70              | 1.85              | 0.013                    | 0.006                      |
| 012                                         | .359              | .369              | 9.12              | 9.37              | .067              | .073              | 1.70              | 1.85              | 0.015                    | 0.007                      |
| 013                                         | .421              | .431              | 10.69             | 10.95             | .067              | .073              | 1.70              | 1.85              | 0.017                    | 0.008                      |
| 014                                         | .484              | .494              | 12.29             | 12.55             | .067              | .073              | 1.70              | 1.85              | 0.018                    | 0.008                      |
| 015                                         | .544              | .558              | 13.82             | 14.17             | .067              | .073              | 1.70              | 1.85              | 0.020                    | 0.009                      |
| 016                                         | .605              | .623              | 15.37             | 15.82             | .067              | .073              | 1.70              | 1.85              | 0.021                    | 0.010                      |
| 017                                         | .667              | .685              | 16.94             | 17.40             | .067              | .073              | 1.70              | 1.85              | 0.023                    | 0.010                      |
| 018                                         | .730              | .748              | 18.54             | 19.00             | .067              | .073              | 1.70              | 1.85              | 0.025                    | 0.011                      |
| 019                                         | .792              | .810              | 20.12             | 20.57             | .067              | .073              | 1.70              | 1.85              | 0.026                    | 0.012                      |
| 020                                         | .855              | .873              | 21.72             | 22.17             | .067              | .073              | 1.70              | 1.85              | 0.028                    | 0.013                      |
| 021                                         | .917              | .935              | 23.29             | 23.75             | .067              | .073              | 1.70              | 1.85              | 0.029                    | 0.013                      |
| 022                                         | .979              | .999              | 24.87             | 25.37             | .067              | .073              | 1.70              | 1.85              | 0.031                    | 0.014                      |
| 023                                         | 1.041             | 1.061             | 26.44             | 26.95             | .067              | .073              | 1.70              | 1.85              | 0.033                    | 0.015                      |
| 024                                         | 1.104             | 1.124             | 28.04             | 28.55             | .067              | .073              | 1.70              | 1.85              | 0.034                    | 0.016                      |
| 025                                         | 1.165             | 1.187             | 29.59             | 30.15             | .067              | .073              | 1.70              | 1.85              | 0.036                    | 0.016                      |
| 026                                         | 1.228             | 1.250             | 31.19             | 31.75             | .067              | .073              | 1.70              | 1.85              | 0.037                    | 0.017                      |
| 027                                         | 1.290             | 1.312             | 32.77             | 33.32             | .067              | .073              | 1.70              | 1.85              | 0.039                    | 0.018                      |
| 028                                         | 1.351             | 1.377             | 34.32             | 34.98             | .067              | .073              | 1.70              | 1.85              | 0.041                    | 0.018                      |
| 029                                         | 1.476             | 1.502             | 37.49             | 38.15             | .067              | .073              | 1.70              | 1.85              | 0.044                    | 0.020                      |
| 030                                         | 1.601             | 1.627             | 40.67             | 41.33             | .067              | .073              | 1.70              | 1.85              | 0.047                    | 0.021                      |
| 031                                         | 1.724             | 1.754             | 43.79             | 44.55             | .067              | .073              | 1.70              | 1.85              | 0.050                    | 0.023                      |
| 032                                         | 1.849             | 1.879             | 46.96             | 47.73             | .067              | .073              | 1.70              | 1.85              | 0.053                    | 0.024                      |
| 033                                         | 1.971             | 2.007             | 50.06             | 50.98             | .067              | .073              | 1.70              | 1.85              | 0.057                    | 0.026                      |
| 034                                         | 2.096             | 2.132             | 53.24             | 54.15             | .067              | .073              | 1.70              | 1.85              | 0.060                    | 0.027                      |
| 035                                         | 2.221             | 2.257             | 56.41             | 57.33             | .067              | .073              | 1.70              | 1.85              | 0.063                    | 0.029                      |
| 036                                         | 2.346             | 2.382             | 59.59             | 60.50             | .067              | .073              | 1.70              | 1.85              | 0.066                    | 0.030                      |
| 037                                         | 2.471             | 2.507             | 62.76             | 63.68             | .067              | .073              | 1.70              | 1.85              | 0.069                    | 0.032                      |
| 038                                         | 2.594             | 2.634             | 65.89             | 66.90             | .067              | .073              | 1.70              | 1.85              | 0.073                    | 0.033                      |
| 039                                         | 2.719             | 2.759             | 69.06             | 70.08             | .067              | .073              | 1.70              | 1.85              | 0.076                    | 0.035                      |
| 040                                         | 2.844             | 2.884             | 72.24             | 73.25             | .067              | .073              | 1.70              | 1.85              | 0.079                    | 0.036                      |
| 041                                         | 2.965             | 3.013             | 75.31             | 76.53             | .067              | .073              | 1.70              | 1.85              | 0.082                    | 0.037                      |
| 042                                         | 3.215             | 3.263             | 81.66             | 82.88             | .067              | .073              | 1.70              | 1.85              | 0.089                    | 0.040                      |
| 043                                         | 3.465             | 3.513             | 88.01             | 89.23             | .067              | .073              | 1.70              | 1.85              | 0.095                    | 0.043                      |
| 044                                         | 3.712             | 3.766             | 94.28             | 95.66             | .067              | .073              | 1.70              | 1.85              | 0.102                    | 0.046                      |
| 045                                         | 3.962             | 4.016             | 100.63            | 102.01            | .067              | .073              | 1.70              | 1.85              | 0.108                    | 0.049                      |
| 046                                         | 4.209             | 4.269             | 106.91            | 108.43            | .067              | .073              | 1.70              | 1.85              | 0.114                    | 0.052                      |
| 047                                         | 4.459             | 4.519             | 113.26            | 114.78            | .067              | .073              | 1.70              | 1.85              | 0.121                    | 0.055                      |
| 048                                         | 4.709             | 4.769             | 119.61            | 121.13            | .067              | .073              | 1.70              | 1.85              | 0.127                    | 0.058                      |
| 049                                         | 4.952             | 5.026             | 125.78            | 127.66            | .067              | .073              | 1.70              | 1.85              | 0.134                    | 0.061                      |
| 050                                         | 5.202             | 5.276             | 132.13            | 134.01            | .067              | .073              | 1.70              | 1.85              | 0.140                    | 0.064                      |



## AEROSPACE STANDARD

O-RING MOLDED FROM AMS7379  
FLUOROCARBON (FKM) MATERIALAS5729™  
SHEET 4 OF 13REV.  
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**TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)**

| BASIC NO.<br>AS5729<br>/1/ /2/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 102                                         | .044              | .054              | 1.12              | 1.37              | .100              | .106              | 2.54              | 2.69              | 0.019                    | 0.009                      |
| 103                                         | .076              | .086              | 1.93              | 2.18              | .100              | .106              | 2.54              | 2.69              | 0.020                    | 0.009                      |
| 104                                         | .107              | .117              | 2.72              | 2.97              | .100              | .106              | 2.54              | 2.69              | 0.021                    | 0.010                      |
| 105                                         | .138              | .148              | 3.51              | 3.76              | .100              | .106              | 2.54              | 2.69              | 0.022                    | 0.010                      |
| 106                                         | .169              | .179              | 4.29              | 4.55              | .100              | .106              | 2.54              | 2.69              | 0.023                    | 0.010                      |
| 107                                         | .201              | .211              | 5.11              | 5.36              | .100              | .106              | 2.54              | 2.69              | 0.023                    | 0.011                      |
| 108                                         | .232              | .242              | 5.89              | 6.15              | .100              | .106              | 2.54              | 2.69              | 0.024                    | 0.011                      |
| 109                                         | .294              | .304              | 7.47              | 7.72              | .100              | .106              | 2.54              | 2.69              | 0.026                    | 0.012                      |
| 110                                         | .357              | .367              | 9.07              | 9.32              | .100              | .106              | 2.54              | 2.69              | 0.027                    | 0.012                      |
| 111                                         | .419              | .429              | 10.64             | 10.90             | .100              | .106              | 2.54              | 2.69              | 0.029                    | 0.013                      |
| 112                                         | .482              | .492              | 12.24             | 12.50             | .100              | .106              | 2.54              | 2.69              | 0.031                    | 0.014                      |
| 113                                         | .542              | .556              | 13.77             | 14.12             | .100              | .106              | 2.54              | 2.69              | 0.032                    | 0.015                      |
| 114                                         | .603              | .621              | 15.32             | 15.77             | .100              | .106              | 2.54              | 2.69              | 0.034                    | 0.015                      |
| 115                                         | .665              | .683              | 16.89             | 17.35             | .100              | .106              | 2.54              | 2.69              | 0.035                    | 0.016                      |
| 116                                         | .728              | .746              | 18.49             | 18.95             | .100              | .106              | 2.54              | 2.69              | 0.037                    | 0.017                      |
| 117                                         | .789              | .809              | 20.04             | 20.55             | .100              | .106              | 2.54              | 2.69              | 0.039                    | 0.018                      |
| 118                                         | .852              | .872              | 21.64             | 22.15             | .100              | .106              | 2.54              | 2.69              | 0.040                    | 0.018                      |
| 119                                         | .914              | .934              | 23.22             | 23.72             | .100              | .106              | 2.54              | 2.69              | 0.042                    | 0.019                      |
| 120                                         | .977              | .997              | 24.82             | 25.32             | .100              | .106              | 2.54              | 2.69              | 0.043                    | 0.020                      |
| 121                                         | 1.039             | 1.059             | 26.39             | 26.90             | .100              | .106              | 2.54              | 2.69              | 0.045                    | 0.020                      |
| 122                                         | 1.102             | 1.122             | 27.99             | 28.50             | .100              | .106              | 2.54              | 2.69              | 0.047                    | 0.021                      |
| 123                                         | 1.162             | 1.186             | 29.51             | 30.12             | .100              | .106              | 2.54              | 2.69              | 0.048                    | 0.022                      |
| 124                                         | 1.225             | 1.249             | 31.12             | 31.72             | .100              | .106              | 2.54              | 2.69              | 0.050                    | 0.023                      |
| 125                                         | 1.287             | 1.311             | 32.69             | 33.30             | .100              | .106              | 2.54              | 2.69              | 0.051                    | 0.023                      |
| 126                                         | 1.350             | 1.374             | 34.29             | 34.90             | .100              | .106              | 2.54              | 2.69              | 0.053                    | 0.024                      |
| 127                                         | 1.412             | 1.436             | 35.86             | 36.47             | .100              | .106              | 2.54              | 2.69              | 0.055                    | 0.025                      |
| 128                                         | 1.475             | 1.499             | 37.46             | 38.07             | .100              | .106              | 2.54              | 2.69              | 0.056                    | 0.026                      |
| 129                                         | 1.534             | 1.564             | 38.96             | 39.73             | .100              | .106              | 2.54              | 2.69              | 0.058                    | 0.026                      |
| 130                                         | 1.597             | 1.627             | 40.56             | 41.33             | .100              | .106              | 2.54              | 2.69              | 0.059                    | 0.027                      |
| 131                                         | 1.659             | 1.689             | 42.14             | 42.90             | .100              | .106              | 2.54              | 2.69              | 0.061                    | 0.028                      |
| 132                                         | 1.722             | 1.752             | 43.74             | 44.50             | .100              | .106              | 2.54              | 2.69              | 0.063                    | 0.028                      |
| 133                                         | 1.784             | 1.814             | 45.31             | 46.08             | .100              | .106              | 2.54              | 2.69              | 0.064                    | 0.029                      |
| 134                                         | 1.847             | 1.877             | 46.91             | 47.68             | .100              | .106              | 2.54              | 2.69              | 0.066                    | 0.030                      |
| 135                                         | 1.908             | 1.942             | 48.46             | 49.33             | .100              | .106              | 2.54              | 2.69              | 0.067                    | 0.031                      |
| 136                                         | 1.970             | 2.004             | 50.04             | 50.90             | .100              | .106              | 2.54              | 2.69              | 0.069                    | 0.031                      |
| 137                                         | 2.033             | 2.067             | 51.64             | 52.50             | .100              | .106              | 2.54              | 2.69              | 0.071                    | 0.032                      |
| 138                                         | 2.095             | 2.129             | 53.21             | 54.08             | .100              | .106              | 2.54              | 2.69              | 0.072                    | 0.033                      |
| 139                                         | 2.158             | 2.192             | 54.81             | 55.68             | .100              | .106              | 2.54              | 2.69              | 0.074                    | 0.034                      |
| 140                                         | 2.220             | 2.254             | 56.39             | 57.25             | .100              | .106              | 2.54              | 2.69              | 0.075                    | 0.034                      |
| 141                                         | 2.280             | 2.320             | 57.91             | 58.93             | .100              | .106              | 2.54              | 2.69              | 0.077                    | 0.035                      |
| 142                                         | 2.342             | 2.382             | 59.49             | 60.50             | .100              | .106              | 2.54              | 2.69              | 0.079                    | 0.036                      |
| 143                                         | 2.405             | 2.445             | 61.09             | 62.10             | .100              | .106              | 2.54              | 2.69              | 0.080                    | 0.036                      |
| 144                                         | 2.467             | 2.507             | 62.66             | 63.68             | .100              | .106              | 2.54              | 2.69              | 0.082                    | 0.037                      |
| 145                                         | 2.530             | 2.570             | 64.26             | 65.28             | .100              | .106              | 2.54              | 2.69              | 0.083                    | 0.038                      |
| 146                                         | 2.592             | 2.632             | 65.84             | 66.85             | .100              | .106              | 2.54              | 2.69              | 0.085                    | 0.039                      |
| 147                                         | 2.653             | 2.697             | 67.39             | 68.50             | .100              | .106              | 2.54              | 2.69              | 0.087                    | 0.039                      |
| 148                                         | 2.715             | 2.759             | 68.96             | 70.08             | .100              | .106              | 2.54              | 2.69              | 0.088                    | 0.040                      |
| 149                                         | 2.778             | 2.822             | 70.56             | 71.68             | .100              | .106              | 2.54              | 2.69              | 0.090                    | 0.041                      |



**AEROSPACE STANDARD**

O-RING MOLDED FROM AMS7379  
FLUOROCARBON (FKM) MATERIAL

**AS5729™**  
SHEET 5 OF 13

**REV.  
B**

**TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)**

| BASIC NO.<br>AS5729<br>/1/ /2/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 150                                         | 2.840             | 2.884             | 72.14             | 73.25             | .100              | .106              | 2.54              | 2.69              | 0.091                    | 0.042                      |
| 151                                         | 2.963             | 3.011             | 75.26             | 76.48             | .100              | .106              | 2.54              | 2.69              | 0.095                    | 0.043                      |
| 152                                         | 3.213             | 3.261             | 81.61             | 82.83             | .100              | .106              | 2.54              | 2.69              | 0.101                    | 0.046                      |
| 153                                         | 3.463             | 3.511             | 87.96             | 89.18             | .100              | .106              | 2.54              | 2.69              | 0.108                    | 0.049                      |
| 154                                         | 3.709             | 3.765             | 94.21             | 95.63             | .100              | .106              | 2.54              | 2.69              | 0.114                    | 0.052                      |
| 155                                         | 3.959             | 4.015             | 100.56            | 101.98            | .100              | .106              | 2.54              | 2.69              | 0.120                    | 0.055                      |
| 156                                         | 4.207             | 4.267             | 106.86            | 108.38            | .100              | .106              | 2.54              | 2.69              | 0.127                    | 0.058                      |
| 157                                         | 4.457             | 4.517             | 113.21            | 114.73            | .100              | .106              | 2.54              | 2.69              | 0.133                    | 0.061                      |
| 158                                         | 4.707             | 4.767             | 119.56            | 121.08            | .100              | .106              | 2.54              | 2.69              | 0.140                    | 0.063                      |
| 159                                         | 4.952             | 5.022             | 125.78            | 127.56            | .100              | .106              | 2.54              | 2.69              | 0.146                    | 0.066                      |
| 160                                         | 5.202             | 5.272             | 132.13            | 133.91            | .100              | .106              | 2.54              | 2.69              | 0.152                    | 0.069                      |
| 161                                         | 5.452             | 5.522             | 138.48            | 140.26            | .100              | .106              | 2.54              | 2.69              | 0.159                    | 0.072                      |
| 162                                         | 5.702             | 5.772             | 144.83            | 146.61            | .100              | .106              | 2.54              | 2.69              | 0.165                    | 0.075                      |
| 163                                         | 5.952             | 6.022             | 151.18            | 152.96            | .100              | .106              | 2.54              | 2.69              | 0.172                    | 0.078                      |
| 164                                         | 6.197             | 6.277             | 157.40            | 159.44            | .100              | .106              | 2.54              | 2.69              | 0.178                    | 0.081                      |
| 165                                         | 6.447             | 6.527             | 163.75            | 165.79            | .100              | .106              | 2.54              | 2.69              | 0.184                    | 0.084                      |
| 166                                         | 6.697             | 6.777             | 170.10            | 172.14            | .100              | .106              | 2.54              | 2.69              | 0.191                    | 0.087                      |
| 167                                         | 6.947             | 7.027             | 176.45            | 178.49            | .100              | .106              | 2.54              | 2.69              | 0.197                    | 0.090                      |
| 168                                         | 7.192             | 7.282             | 182.68            | 184.96            | .100              | .106              | 2.54              | 2.69              | 0.204                    | 0.093                      |
| 169                                         | 7.442             | 7.532             | 189.03            | 191.31            | .100              | .106              | 2.54              | 2.69              | 0.210                    | 0.095                      |
| 170                                         | 7.692             | 7.782             | 195.38            | 197.66            | .100              | .106              | 2.54              | 2.69              | 0.217                    | 0.098                      |
| 171                                         | 7.942             | 8.032             | 201.73            | 204.01            | .100              | .106              | 2.54              | 2.69              | 0.223                    | 0.101                      |
| 172                                         | 8.187             | 8.287             | 207.95            | 210.49            | .100              | .106              | 2.54              | 2.69              | 0.229                    | 0.104                      |
| 173                                         | 8.437             | 8.537             | 214.30            | 216.84            | .100              | .106              | 2.54              | 2.69              | 0.236                    | 0.107                      |
| 174                                         | 8.687             | 8.787             | 220.65            | 223.19            | .100              | .106              | 2.54              | 2.69              | 0.242                    | 0.110                      |
| 175                                         | 8.937             | 9.037             | 227.00            | 229.54            | .100              | .106              | 2.54              | 2.69              | 0.249                    | 0.113                      |
| 176                                         | 9.182             | 9.292             | 233.22            | 236.02            | .100              | .106              | 2.54              | 2.69              | 0.255                    | 0.116                      |
| 177                                         | 9.432             | 9.542             | 239.57            | 242.37            | .100              | .106              | 2.54              | 2.69              | 0.261                    | 0.119                      |
| 178                                         | 9.682             | 9.792             | 245.92            | 248.72            | .100              | .106              | 2.54              | 2.69              | 0.268                    | 0.122                      |
| 201                                         | 0.166             | 0.176             | 4.22              | 4.47              | .135              | .143              | 3.43              | 3.63              | 0.049                    | 0.022                      |
| 202                                         | 0.229             | 0.239             | 5.82              | 6.07              | .135              | .143              | 3.43              | 3.63              | 0.050                    | 0.023                      |
| 203                                         | 0.291             | 0.301             | 7.39              | 7.65              | .135              | .143              | 3.43              | 3.63              | 0.052                    | 0.024                      |
| 204                                         | 0.354             | 0.364             | 8.99              | 9.25              | .135              | .143              | 3.43              | 3.63              | 0.054                    | 0.024                      |
| 205                                         | 0.416             | 0.426             | 10.57             | 10.82             | .135              | .143              | 3.43              | 3.63              | 0.055                    | 0.025                      |
| 206                                         | 0.479             | 0.489             | 12.17             | 12.42             | .135              | .143              | 3.43              | 3.63              | 0.057                    | 0.026                      |
| 207                                         | 0.539             | 0.553             | 13.69             | 14.05             | .135              | .143              | 3.43              | 3.63              | 0.058                    | 0.027                      |
| 208                                         | 0.600             | 0.618             | 15.24             | 15.70             | .135              | .143              | 3.43              | 3.63              | 0.060                    | 0.027                      |
| 209                                         | 0.662             | 0.680             | 16.81             | 17.27             | .135              | .143              | 3.43              | 3.63              | 0.062                    | 0.028                      |
| 210                                         | 0.724             | 0.744             | 18.39             | 18.90             | .135              | .143              | 3.43              | 3.63              | 0.063                    | 0.029                      |
| 211                                         | 0.786             | 0.806             | 19.96             | 20.47             | .135              | .143              | 3.43              | 3.63              | 0.065                    | 0.029                      |
| 212                                         | 0.849             | 0.869             | 21.56             | 22.07             | .135              | .143              | 3.43              | 3.63              | 0.066                    | 0.030                      |
| 213                                         | 0.911             | 0.931             | 23.14             | 23.65             | .135              | .143              | 3.43              | 3.63              | 0.068                    | 0.031                      |
| 214                                         | 0.974             | 0.994             | 24.74             | 25.25             | .135              | .143              | 3.43              | 3.63              | 0.070                    | 0.032                      |
| 215                                         | 1.036             | 1.056             | 26.31             | 26.82             | .135              | .143              | 3.43              | 3.63              | 0.071                    | 0.032                      |
| 216                                         | 1.097             | 1.121             | 27.86             | 28.47             | .135              | .143              | 3.43              | 3.63              | 0.073                    | 0.033                      |
| 217                                         | 1.159             | 1.183             | 29.44             | 30.05             | .135              | .143              | 3.43              | 3.63              | 0.074                    | 0.034                      |
| 218                                         | 1.222             | 1.246             | 31.04             | 31.65             | .135              | .143              | 3.43              | 3.63              | 0.076                    | 0.035                      |
| 219                                         | 1.284             | 1.308             | 32.61             | 33.22             | .135              | .143              | 3.43              | 3.63              | 0.078                    | 0.035                      |
| 220                                         | 1.347             | 1.371             | 34.21             | 34.82             | .135              | .143              | 3.43              | 3.63              | 0.079                    | 0.036                      |



**AEROSPACE STANDARD**

O-RING MOLDED FROM AMS7379  
FLUOROCARBON (FKM) MATERIAL

**AS5729™**  
SHEET 6 OF 13

**REV.  
B**

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

| BASIC NO.<br>AS5729<br>/1/ /2/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 221                                         | 1.409             | 1.433             | 35.79             | 36.40             | .135              | .143              | 3.43              | 3.63              | 0.081                    | 0.037                      |
| 222                                         | 1.469             | 1.499             | 37.31             | 38.07             | .135              | .143              | 3.43              | 3.63              | 0.082                    | 0.037                      |
| 223                                         | 1.594             | 1.624             | 40.49             | 41.25             | .135              | .143              | 3.43              | 3.63              | 0.086                    | 0.039                      |
| 224                                         | 1.719             | 1.749             | 43.66             | 44.42             | .135              | .143              | 3.43              | 3.63              | 0.089                    | 0.040                      |
| 225                                         | 1.841             | 1.877             | 46.76             | 47.68             | .135              | .143              | 3.43              | 3.63              | 0.092                    | 0.042                      |
| 226                                         | 1.966             | 2.002             | 49.94             | 50.85             | .135              | .143              | 3.43              | 3.63              | 0.095                    | 0.043                      |
| 227                                         | 2.091             | 2.127             | 53.11             | 54.03             | .135              | .143              | 3.43              | 3.63              | 0.098                    | 0.045                      |
| 228                                         | 2.214             | 2.254             | 56.24             | 57.25             | .135              | .143              | 3.43              | 3.63              | 0.102                    | 0.046                      |
| 229                                         | 2.339             | 2.379             | 59.41             | 60.43             | .135              | .143              | 3.43              | 3.63              | 0.105                    | 0.048                      |
| 230                                         | 2.464             | 2.504             | 62.59             | 63.60             | .135              | .143              | 3.43              | 3.63              | 0.108                    | 0.049                      |
| 231                                         | 2.589             | 2.629             | 65.76             | 66.78             | .135              | .143              | 3.43              | 3.63              | 0.111                    | 0.051                      |
| 232                                         | 2.710             | 2.758             | 68.83             | 70.05             | .135              | .143              | 3.43              | 3.63              | 0.115                    | 0.052                      |
| 233                                         | 2.835             | 2.883             | 72.01             | 73.23             | .135              | .143              | 3.43              | 3.63              | 0.118                    | 0.054                      |
| 234                                         | 2.960             | 3.008             | 75.18             | 76.40             | .135              | .143              | 3.43              | 3.63              | 0.121                    | 0.055                      |
| 235                                         | 3.085             | 3.133             | 78.36             | 79.58             | .135              | .143              | 3.43              | 3.63              | 0.124                    | 0.056                      |
| 236                                         | 3.210             | 3.258             | 81.53             | 82.75             | .135              | .143              | 3.43              | 3.63              | 0.127                    | 0.058                      |
| 237                                         | 3.335             | 3.383             | 84.71             | 85.93             | .135              | .143              | 3.43              | 3.63              | 0.131                    | 0.059                      |
| 238                                         | 3.460             | 3.508             | 87.88             | 89.10             | .135              | .143              | 3.43              | 3.63              | 0.134                    | 0.061                      |
| 239                                         | 3.581             | 3.637             | 90.96             | 92.38             | .135              | .143              | 3.43              | 3.63              | 0.137                    | 0.062                      |
| 240                                         | 3.706             | 3.762             | 94.13             | 95.55             | .135              | .143              | 3.43              | 3.63              | 0.140                    | 0.064                      |
| 241                                         | 3.831             | 3.887             | 97.31             | 98.73             | .135              | .143              | 3.43              | 3.63              | 0.143                    | 0.065                      |
| 242                                         | 3.956             | 4.012             | 100.48            | 101.90            | .135              | .143              | 3.43              | 3.63              | 0.147                    | 0.067                      |
| 243                                         | 4.081             | 4.137             | 103.66            | 105.08            | .135              | .143              | 3.43              | 3.63              | 0.150                    | 0.068                      |
| 244                                         | 4.204             | 4.264             | 106.76            | 108.31            | .135              | .143              | 3.43              | 3.63              | 0.153                    | 0.07                       |
| 245                                         | 4.329             | 4.389             | 109.96            | 111.48            | .135              | .143              | 3.43              | 3.63              | 0.156                    | 0.071                      |
| 246                                         | 4.454             | 4.514             | 113.13            | 114.66            | .135              | .143              | 3.43              | 3.63              | 0.159                    | 0.072                      |
| 247                                         | 4.579             | 4.639             | 116.31            | 117.83            | .135              | .143              | 3.43              | 3.63              | 0.163                    | 0.074                      |
| 248                                         | 4.704             | 4.764             | 119.48            | 121.01            | .135              | .143              | 3.43              | 3.63              | 0.166                    | 0.075                      |
| 249                                         | 4.824             | 4.894             | 122.53            | 124.31            | .135              | .143              | 3.43              | 3.63              | 0.169                    | 0.077                      |
| 250                                         | 4.949             | 5.019             | 125.70            | 127.48            | .135              | .143              | 3.43              | 3.63              | 0.172                    | 0.078                      |
| 251                                         | 5.074             | 5.144             | 128.88            | 130.66            | .135              | .143              | 3.43              | 3.63              | 0.175                    | 0.080                      |
| 252                                         | 5.199             | 5.269             | 132.05            | 133.83            | .135              | .143              | 3.43              | 3.63              | 0.179                    | 0.081                      |
| 253                                         | 5.324             | 5.394             | 135.23            | 137.01            | .135              | .143              | 3.43              | 3.63              | 0.182                    | 0.083                      |
| 254                                         | 5.449             | 5.519             | 138.40            | 140.18            | .135              | .143              | 3.43              | 3.63              | 0.185                    | 0.084                      |
| 255                                         | 5.574             | 5.644             | 141.58            | 143.36            | .135              | .143              | 3.43              | 3.63              | 0.188                    | 0.086                      |
| 256                                         | 5.699             | 5.769             | 144.75            | 146.53            | .135              | .143              | 3.43              | 3.63              | 0.191                    | 0.087                      |
| 257                                         | 5.824             | 5.894             | 147.93            | 149.71            | .135              | .143              | 3.43              | 3.63              | 0.195                    | 0.088                      |
| 258                                         | 5.949             | 6.019             | 151.10            | 152.88            | .135              | .143              | 3.43              | 3.63              | 0.198                    | 0.090                      |
| 259                                         | 6.194             | 6.274             | 157.33            | 159.36            | .135              | .143              | 3.43              | 3.63              | 0.204                    | 0.093                      |
| 260                                         | 6.444             | 6.524             | 163.68            | 165.71            | .135              | .143              | 3.43              | 3.63              | 0.211                    | 0.096                      |
| 261                                         | 6.694             | 6.774             | 170.03            | 172.06            | .135              | .143              | 3.43              | 3.63              | 0.217                    | 0.099                      |
| 262                                         | 6.944             | 7.024             | 176.38            | 178.41            | .135              | .143              | 3.43              | 3.63              | 0.224                    | 0.102                      |
| 263                                         | 7.189             | 7.279             | 182.60            | 184.89            | .135              | .143              | 3.43              | 3.63              | 0.230                    | 0.105                      |
| 264                                         | 7.439             | 7.529             | 188.95            | 191.24            | .135              | .143              | 3.43              | 3.63              | 0.236                    | 0.107                      |
| 265                                         | 7.689             | 7.779             | 195.30            | 197.59            | .135              | .143              | 3.43              | 3.63              | 0.243                    | 0.110                      |
| 266                                         | 7.939             | 8.029             | 201.65            | 203.94            | .135              | .143              | 3.43              | 3.63              | 0.249                    | 0.113                      |
| 267                                         | 8.184             | 8.284             | 207.87            | 210.41            | .135              | .143              | 3.43              | 3.63              | 0.256                    | 0.116                      |
| 268                                         | 8.434             | 8.534             | 214.22            | 216.76            | .135              | .143              | 3.43              | 3.63              | 0.262                    | 0.119                      |
| 269                                         | 8.684             | 8.784             | 220.57            | 223.11            | .135              | .143              | 3.43              | 3.63              | 0.268                    | 0.122                      |
| 270                                         | 8.934             | 9.034             | 226.92            | 229.46            | .135              | .143              | 3.43              | 3.63              | 0.275                    | 0.125                      |



## AEROSPACE STANDARD

O-RING MOLDED FROM AMS7379  
FLUOROCARBON (FKM) MATERIALAS5729™  
SHEET 7 OF 13REV.  
B

TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)

| BASIC NO.<br>AS5729<br>/1/ /2/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 271                                         | 9.179             | 9.289             | 233.15            | 235.94            | .135              | .143              | 3.43              | 3.63              | 0.281                    | 0.128                      |
| 272                                         | 9.429             | 9.539             | 239.50            | 242.29            | .135              | .143              | 3.43              | 3.63              | 0.288                    | 0.131                      |
| 273                                         | 9.679             | 9.789             | 245.85            | 248.64            | .135              | .143              | 3.43              | 3.63              | 0.294                    | 0.134                      |
| 274                                         | 9.929             | 10.039            | 252.20            | 254.99            | .135              | .143              | 3.43              | 3.63              | 0.300                    | 0.137                      |
| 275                                         | 10.429            | 10.539            | 264.90            | 267.69            | .135              | .143              | 3.43              | 3.63              | 0.313                    | 0.142                      |
| 276                                         | 10.919            | 11.049            | 277.34            | 280.64            | .135              | .143              | 3.43              | 3.63              | 0.326                    | 0.148                      |
| 277                                         | 11.419            | 11.549            | 290.04            | 293.34            | .135              | .143              | 3.43              | 3.63              | 0.339                    | 0.154                      |
| 278                                         | 11.919            | 12.049            | 302.74            | 306.04            | .135              | .143              | 3.43              | 3.63              | 0.352                    | 0.160                      |
| 279                                         | 12.919            | 13.049            | 328.14            | 331.44            | .135              | .143              | 3.43              | 3.63              | 0.377                    | 0.172                      |
| 280                                         | 13.919            | 14.049            | 353.54            | 356.84            | .135              | .143              | 3.43              | 3.63              | 0.403                    | 0.183                      |
| 281                                         | 14.919            | 15.049            | 378.94            | 382.24            | .135              | .143              | 3.43              | 3.63              | 0.429                    | 0.195                      |
| 282                                         | 15.880            | 16.030            | 403.35            | 407.16            | .135              | .143              | 3.43              | 3.63              | 0.454                    | 0.206                      |
| 283                                         | 16.875            | 17.035            | 428.63            | 432.69            | .135              | .143              | 3.43              | 3.63              | 0.479                    | 0.218                      |
| 284                                         | 17.870            | 18.040            | 453.90            | 458.22            | .135              | .143              | 3.43              | 3.63              | 0.505                    | 0.229                      |
| 309                                         | 0.407             | 0.417             | 10.34             | 10.59             | .205              | .215              | 5.21              | 5.46              | 0.164                    | 0.074                      |
| 310                                         | 0.470             | 0.480             | 11.94             | 12.19             | .205              | .215              | 5.21              | 5.46              | 0.165                    | 0.075                      |
| 311                                         | 0.530             | 0.544             | 13.46             | 13.82             | .205              | .215              | 5.21              | 5.46              | 0.167                    | 0.076                      |
| 312                                         | 0.591             | 0.609             | 15.01             | 15.47             | .205              | .215              | 5.21              | 5.46              | 0.169                    | 0.077                      |
| 313                                         | 0.653             | 0.671             | 16.59             | 17.04             | .205              | .215              | 5.21              | 5.46              | 0.170                    | 0.077                      |
| 314                                         | 0.715             | 0.735             | 18.16             | 18.67             | .205              | .215              | 5.21              | 5.46              | 0.172                    | 0.078                      |
| 315                                         | 0.777             | 0.797             | 19.74             | 20.24             | .205              | .215              | 5.21              | 5.46              | 0.173                    | 0.079                      |
| 316                                         | 0.840             | 0.860             | 21.34             | 21.84             | .205              | .215              | 5.21              | 5.46              | 0.175                    | 0.080                      |
| 317                                         | 0.902             | 0.922             | 22.91             | 23.42             | .205              | .215              | 5.21              | 5.46              | 0.177                    | 0.080                      |
| 318                                         | 0.965             | 0.985             | 24.51             | 25.02             | .205              | .215              | 5.21              | 5.46              | 0.178                    | 0.081                      |
| 319                                         | 1.027             | 1.047             | 26.09             | 26.59             | .205              | .215              | 5.21              | 5.46              | 0.180                    | 0.082                      |
| 320                                         | 1.088             | 1.112             | 27.64             | 28.24             | .205              | .215              | 5.21              | 5.46              | 0.182                    | 0.083                      |
| 321                                         | 1.150             | 1.174             | 29.21             | 29.82             | .205              | .215              | 5.21              | 5.46              | 0.183                    | 0.083                      |
| 322                                         | 1.213             | 1.237             | 30.81             | 31.42             | .205              | .215              | 5.21              | 5.46              | 0.185                    | 0.084                      |
| 323                                         | 1.275             | 1.299             | 32.39             | 32.99             | .205              | .215              | 5.21              | 5.46              | 0.186                    | 0.085                      |
| 324                                         | 1.338             | 1.362             | 33.99             | 34.59             | .205              | .215              | 5.21              | 5.46              | 0.188                    | 0.085                      |
| 325                                         | 1.460             | 1.490             | 37.08             | 37.85             | .205              | .215              | 5.21              | 5.46              | 0.191                    | 0.087                      |
| 326                                         | 1.585             | 1.615             | 40.26             | 41.02             | .205              | .215              | 5.21              | 5.46              | 0.194                    | 0.088                      |
| 327                                         | 1.710             | 1.740             | 43.43             | 44.20             | .205              | .215              | 5.21              | 5.46              | 0.198                    | 0.090                      |
| 328                                         | 1.835             | 1.865             | 46.61             | 47.37             | .205              | .215              | 5.21              | 5.46              | 0.201                    | 0.091                      |
| 329                                         | 1.957             | 1.993             | 49.71             | 50.62             | .205              | .215              | 5.21              | 5.46              | 0.204                    | 0.093                      |
| 330                                         | 2.082             | 2.118             | 52.88             | 53.80             | .205              | .215              | 5.21              | 5.46              | 0.207                    | 0.094                      |
| 331                                         | 2.207             | 2.243             | 56.06             | 56.97             | .205              | .215              | 5.21              | 5.46              | 0.210                    | 0.096                      |
| 332                                         | 2.332             | 2.368             | 59.23             | 60.15             | .205              | .215              | 5.21              | 5.46              | 0.214                    | 0.097                      |
| 333                                         | 2.455             | 2.495             | 62.36             | 63.37             | .205              | .215              | 5.21              | 5.46              | 0.217                    | 0.099                      |
| 334                                         | 2.580             | 2.620             | 65.53             | 66.55             | .205              | .215              | 5.21              | 5.46              | 0.220                    | 0.100                      |
| 335                                         | 2.705             | 2.745             | 68.71             | 69.72             | .205              | .215              | 5.21              | 5.46              | 0.223                    | 0.101                      |
| 336                                         | 2.830             | 2.870             | 71.88             | 72.90             | .205              | .215              | 5.21              | 5.46              | 0.226                    | 0.103                      |
| 337                                         | 2.951             | 2.999             | 74.96             | 76.17             | .205              | .215              | 5.21              | 5.46              | 0.230                    | 0.104                      |
| 338                                         | 3.076             | 3.124             | 78.13             | 79.35             | .205              | .215              | 5.21              | 5.46              | 0.233                    | 0.106                      |
| 339                                         | 3.201             | 3.249             | 81.31             | 82.52             | .205              | .215              | 5.21              | 5.46              | 0.236                    | 0.107                      |
| 340                                         | 3.326             | 3.374             | 84.48             | 85.70             | .205              | .215              | 5.21              | 5.46              | 0.239                    | 0.109                      |



## AEROSPACE STANDARD

O-RING MOLDED FROM AMS7379  
FLUOROCARBON (FKM) MATERIALAS5729™  
SHEET 8 OF 13REV.  
B

**TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)**

| BASIC NO.<br>AS5729<br>/1/ /2/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 341                                         | 3.451             | 3.499             | 87.66             | 88.87             | .205              | .215              | 5.21              | 5.46              | 0.242                    | 0.110                      |
| 342                                         | 3.572             | 3.628             | 90.73             | 92.15             | .205              | .215              | 5.21              | 5.46              | 0.246                    | 0.112                      |
| 343                                         | 3.697             | 3.753             | 93.90             | 95.33             | .205              | .215              | 5.21              | 5.46              | 0.249                    | 0.113                      |
| 344                                         | 3.822             | 3.878             | 97.08             | 98.50             | .205              | .215              | 5.21              | 5.46              | 0.252                    | 0.115                      |
| 345                                         | 3.947             | 4.003             | 100.25            | 101.68            | .205              | .215              | 5.21              | 5.46              | 0.255                    | 0.116                      |
| 346                                         | 4.072             | 4.128             | 103.43            | 104.85            | .205              | .215              | 5.21              | 5.46              | 0.258                    | 0.117                      |
| 347                                         | 4.195             | 4.255             | 106.55            | 108.08            | .205              | .215              | 5.21              | 5.46              | 0.262                    | 0.119                      |
| 348                                         | 4.320             | 4.380             | 109.73            | 111.25            | .205              | .215              | 5.21              | 5.46              | 0.265                    | 0.120                      |
| 349                                         | 4.445             | 4.505             | 112.90            | 114.43            | .205              | .215              | 5.21              | 5.46              | 0.268                    | 0.122                      |
| 350                                         | 4.570             | 4.630             | 116.08            | 117.60            | .205              | .215              | 5.21              | 5.46              | 0.271                    | 0.123                      |
| 351                                         | 4.695             | 4.755             | 119.25            | 120.78            | .205              | .215              | 5.21              | 5.46              | 0.275                    | 0.125                      |
| 352                                         | 4.820             | 4.880             | 122.43            | 123.95            | .205              | .215              | 5.21              | 5.46              | 0.278                    | 0.126                      |
| 353                                         | 4.938             | 5.012             | 125.43            | 127.30            | .205              | .215              | 5.21              | 5.46              | 0.281                    | 0.128                      |
| 354                                         | 5.063             | 5.137             | 128.60            | 130.46            | .205              | .215              | 5.21              | 5.46              | 0.284                    | 0.129                      |
| 355                                         | 5.188             | 5.262             | 131.78            | 133.65            | .205              | .215              | 5.21              | 5.46              | 0.287                    | 0.131                      |
| 356                                         | 5.313             | 5.387             | 134.95            | 136.83            | .205              | .215              | 5.21              | 5.46              | 0.291                    | 0.132                      |
| 357                                         | 5.438             | 5.512             | 138.13            | 140.00            | .205              | .215              | 5.21              | 5.46              | 0.294                    | 0.134                      |
| 358                                         | 5.563             | 5.637             | 141.30            | 143.18            | .205              | .215              | 5.21              | 5.46              | 0.297                    | 0.135                      |
| 359                                         | 5.688             | 5.762             | 144.48            | 146.35            | .205              | .215              | 5.21              | 5.46              | 0.300                    | 0.136                      |
| 360                                         | 5.813             | 5.887             | 147.65            | 149.53            | .205              | .215              | 5.21              | 5.46              | 0.303                    | 0.138                      |
| 361                                         | 5.938             | 6.012             | 150.83            | 152.70            | .205              | .215              | 5.21              | 5.46              | 0.307                    | 0.139                      |
| 362                                         | 6.185             | 6.265             | 157.10            | 159.13            | .205              | .215              | 5.21              | 5.46              | 0.313                    | 0.142                      |
| 363                                         | 6.435             | 6.515             | 163.45            | 165.48            | .205              | .215              | 5.21              | 5.46              | 0.319                    | 0.145                      |
| 364                                         | 6.685             | 6.765             | 169.80            | 171.83            | .205              | .215              | 5.21              | 5.46              | 0.326                    | 0.148                      |
| 365                                         | 6.935             | 7.015             | 176.15            | 178.18            | .205              | .215              | 5.21              | 5.46              | 0.332                    | 0.151                      |
| 366                                         | 7.180             | 7.270             | 182.37            | 184.66            | .205              | .215              | 5.21              | 5.46              | 0.339                    | 0.154                      |
| 367                                         | 7.430             | 7.520             | 188.72            | 191.01            | .205              | .215              | 5.21              | 5.46              | 0.345                    | 0.157                      |
| 368                                         | 7.680             | 7.770             | 195.07            | 197.36            | .205              | .215              | 5.21              | 5.46              | 0.351                    | 0.160                      |
| 369                                         | 7.930             | 8.020             | 201.42            | 203.71            | .205              | .215              | 5.21              | 5.46              | 0.358                    | 0.163                      |
| 370                                         | 8.175             | 8.275             | 207.65            | 210.19            | .205              | .215              | 5.21              | 5.46              | 0.364                    | 0.166                      |
| 371                                         | 8.425             | 8.525             | 214.00            | 216.54            | .205              | .215              | 5.21              | 5.46              | 0.371                    | 0.168                      |
| 372                                         | 8.675             | 8.775             | 220.35            | 222.89            | .205              | .215              | 5.21              | 5.46              | 0.377                    | 0.171                      |
| 373                                         | 8.925             | 9.025             | 226.70            | 229.24            | .205              | .215              | 5.21              | 5.46              | 0.383                    | 0.174                      |
| 374                                         | 9.170             | 9.280             | 232.92            | 235.71            | .205              | .215              | 5.21              | 5.46              | 0.390                    | 0.177                      |
| 375                                         | 9.420             | 9.530             | 239.27            | 242.06            | .205              | .215              | 5.21              | 5.46              | 0.396                    | 0.180                      |
| 376                                         | 9.670             | 9.780             | 245.62            | 248.41            | .205              | .215              | 5.21              | 5.46              | 0.403                    | 0.183                      |
| 377                                         | 9.920             | 10.030            | 251.97            | 254.76            | .205              | .215              | 5.21              | 5.46              | 0.409                    | 0.186                      |
| 378                                         | 10.415            | 10.535            | 264.54            | 267.59            | .205              | .215              | 5.21              | 5.46              | 0.422                    | 0.192                      |
| 379                                         | 10.915            | 11.035            | 277.24            | 280.29            | .205              | .215              | 5.21              | 5.46              | 0.435                    | 0.198                      |
| 380                                         | 11.410            | 11.540            | 289.81            | 293.12            | .205              | .215              | 5.21              | 5.46              | 0.448                    | 0.203                      |
| 381                                         | 11.910            | 12.040            | 302.51            | 305.82            | .205              | .215              | 5.21              | 5.46              | 0.460                    | 0.209                      |
| 382                                         | 12.910            | 13.040            | 327.91            | 331.22            | .205              | .215              | 5.21              | 5.46              | 0.486                    | 0.221                      |
| 383                                         | 13.905            | 14.045            | 353.19            | 356.74            | .205              | .215              | 5.21              | 5.46              | 0.512                    | 0.233                      |
| 384                                         | 14.905            | 15.045            | 378.59            | 382.14            | .205              | .215              | 5.21              | 5.46              | 0.537                    | 0.244                      |
| 385                                         | 15.880            | 16.030            | 403.35            | 407.16            | .205              | .215              | 5.21              | 5.46              | 0.563                    | 0.256                      |
| 386                                         | 16.875            | 17.035            | 428.63            | 432.69            | .205              | .215              | 5.21              | 5.46              | 0.588                    | 0.267                      |
| 387                                         | 17.870            | 18.040            | 453.90            | 458.22            | .205              | .215              | 5.21              | 5.46              | 0.614                    | 0.279                      |
| 388                                         | 18.865            | 19.045            | 479.17            | 483.74            | .205              | .215              | 5.21              | 5.46              | 0.639                    | 0.291                      |
| 389                                         | 19.860            | 20.050            | 504.44            | 509.27            | .205              | .215              | 5.21              | 5.46              | 0.665                    | 0.302                      |
| 390                                         | 20.860            | 21.050            | 529.84            | 534.67            | .205              | .215              | 5.21              | 5.46              | 0.691                    | 0.314                      |

**TABLE 1 - AEROSPACE SIZE STANDARDS FOR O-RINGS (CONTINUED)**

| BASIC NO.<br>AS5729<br>/1/ /2/<br>SIZE CODE | ØD<br>INCH<br>MIN | ØD<br>INCH<br>MAX | ØD<br>(mm)<br>MIN | ØD<br>(mm)<br>MAX | ØW<br>INCH<br>MIN | ØW<br>INCH<br>MAX | ØW<br>(mm)<br>MIN | ØW<br>(mm)<br>MAX | APPROX<br>MASS<br>LB/100 | APPROX<br>MASS<br>(KG/100) |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|----------------------------|
| 391                                         | 21.855            | 22.055            | 555.12            | 560.20            | .205              | .215              | 5.21              | 5.46              | 0.716                    | 0.326                      |
| 392                                         | 22.835            | 23.045            | 580.01            | 585.34            | .205              | .215              | 5.21              | 5.46              | 0.742                    | 0.314                      |
| 393                                         | 23.830            | 24.050            | 605.26            | 610.87            | .205              | .215              | 5.21              | 5.46              | 0.767                    | 0.349                      |
| 394                                         | 24.825            | 25.055            | 630.56            | 636.40            | .205              | .215              | 5.21              | 5.46              | 0.793                    | 0.360                      |
| 395                                         | 25.820            | 26.060            | 655.83            | 661.92            | .205              | .215              | 5.21              | 5.46              | 0.819                    | 0.372                      |
| 425                                         | 4.442             | 4.508             | 112.83            | 114.50            | .269              | .281              | 6.83              | 7.14              | 0.459                    | 0.209                      |
| 426                                         | 4.567             | 4.633             | 116.00            | 117.68            | .269              | .281              | 6.83              | 7.14              | 0.462                    | 0.210                      |
| 427                                         | 4.692             | 4.758             | 119.18            | 120.85            | .269              | .281              | 6.83              | 7.14              | 0.465                    | 0.212                      |
| 428                                         | 4.817             | 4.883             | 122.35            | 124.03            | .269              | .281              | 6.83              | 7.14              | 0.468                    | 0.213                      |
| 429                                         | 4.938             | 5.012             | 125.43            | 127.30            | .269              | .281              | 6.83              | 7.14              | 0.472                    | 0.214                      |
| 430                                         | 5.063             | 5.137             | 128.60            | 130.48            | .269              | .281              | 6.83              | 7.14              | 0.475                    | 0.216                      |
| 431                                         | 5.188             | 5.262             | 131.78            | 133.65            | .269              | .281              | 6.83              | 7.14              | 0.478                    | 0.217                      |
| 432                                         | 5.313             | 5.387             | 134.95            | 136.83            | .269              | .281              | 6.83              | 7.14              | 0.481                    | 0.219                      |
| 433                                         | 5.438             | 5.512             | 138.13            | 140.00            | .269              | .281              | 6.83              | 7.14              | 0.484                    | 0.220                      |
| 434                                         | 5.563             | 5.637             | 141.30            | 143.18            | .269              | .281              | 6.83              | 7.14              | 0.488                    | 0.222                      |
| 435                                         | 5.688             | 5.762             | 144.48            | 146.35            | .269              | .281              | 6.83              | 7.14              | 0.491                    | 0.223                      |
| 436                                         | 5.813             | 5.887             | 147.65            | 149.53            | .269              | .281              | 6.83              | 7.14              | 0.494                    | 0.225                      |
| 437                                         | 5.938             | 6.012             | 150.83            | 152.70            | .269              | .281              | 6.83              | 7.14              | 0.497                    | 0.226                      |
| 438                                         | 6.185             | 6.265             | 157.10            | 159.13            | .269              | .281              | 6.83              | 7.14              | 0.504                    | 0.229                      |
| 439                                         | 6.435             | 6.515             | 163.45            | 165.48            | .269              | .281              | 6.83              | 7.14              | 0.510                    | 0.232                      |
| 440                                         | 6.685             | 6.765             | 169.80            | 171.83            | .269              | .281              | 6.83              | 7.14              | 0.517                    | 0.235                      |
| 441                                         | 6.935             | 7.015             | 176.15            | 178.18            | .269              | .281              | 6.83              | 7.14              | 0.523                    | 0.238                      |
| 442                                         | 7.180             | 7.270             | 182.37            | 184.66            | .269              | .281              | 6.83              | 7.14              | 0.529                    | 0.241                      |
| 443                                         | 7.430             | 7.520             | 188.72            | 191.01            | .269              | .281              | 6.83              | 7.14              | 0.536                    | 0.244                      |
| 444                                         | 7.680             | 7.770             | 195.07            | 197.36            | .269              | .281              | 6.83              | 7.14              | 0.542                    | 0.246                      |
| 445                                         | 7.930             | 8.020             | 201.42            | 203.71            | .269              | .281              | 6.83              | 7.14              | 0.549                    | 0.249                      |
| 446                                         | 8.420             | 8.530             | 213.87            | 216.66            | .269              | .281              | 6.83              | 7.14              | 0.561                    | 0.255                      |
| 447                                         | 8.920             | 9.030             | 226.57            | 229.36            | .269              | .281              | 6.83              | 7.14              | 0.574                    | 0.261                      |
| 448                                         | 9.420             | 9.530             | 239.27            | 242.06            | .269              | .281              | 6.83              | 7.14              | 0.587                    | 0.267                      |
| 449                                         | 9.920             | 10.030            | 251.97            | 254.76            | .269              | .281              | 6.83              | 7.14              | 0.600                    | 0.273                      |
| 450                                         | 10.415            | 10.535            | 264.54            | 267.59            | .269              | .281              | 6.83              | 7.14              | 0.613                    | 0.279                      |
| 451                                         | 10.915            | 11.035            | 277.24            | 280.29            | .269              | .281              | 6.83              | 7.14              | 0.626                    | 0.284                      |
| 452                                         | 11.415            | 11.535            | 289.94            | 292.99            | .269              | .281              | 6.83              | 7.14              | 0.638                    | 0.290                      |
| 453                                         | 11.915            | 12.035            | 302.64            | 305.69            | .269              | .281              | 6.83              | 7.14              | 0.651                    | 0.296                      |
| 454                                         | 12.415            | 12.535            | 315.34            | 318.39            | .269              | .281              | 6.83              | 7.14              | 0.664                    | 0.302                      |
| 455                                         | 12.915            | 13.035            | 328.04            | 331.09            | .269              | .281              | 6.83              | 7.14              | 0.677                    | 0.308                      |
| 456                                         | 13.405            | 13.545            | 340.49            | 344.04            | .269              | .281              | 6.83              | 7.14              | 0.690                    | 0.313                      |
| 457                                         | 13.905            | 14.045            | 353.19            | 356.74            | .269              | .281              | 6.83              | 7.14              | 0.702                    | 0.319                      |
| 458                                         | 14.405            | 14.545            | 365.89            | 369.44            | .269              | .281              | 6.83              | 7.14              | 0.715                    | 0.325                      |
| 459                                         | 14.905            | 15.045            | 378.59            | 382.14            | .269              | .281              | 6.83              | 7.14              | 0.728                    | 0.331                      |
| 460                                         | 15.405            | 15.545            | 391.29            | 394.84            | .269              | .281              | 6.83              | 7.14              | 0.741                    | 0.337                      |
| 461                                         | 15.880            | 16.030            | 403.35            | 407.16            | .269              | .281              | 6.83              | 7.14              | 0.753                    | 0.342                      |
| 462                                         | 16.380            | 16.530            | 416.05            | 419.86            | .269              | .281              | 6.83              | 7.14              | 0.766                    | 0.348                      |
| 463                                         | 16.875            | 17.035            | 428.63            | 432.69            | .269              | .281              | 6.83              | 7.14              | 0.779                    | 0.354                      |
| 464                                         | 17.370            | 17.540            | 441.20            | 445.52            | .269              | .281              | 6.83              | 7.14              | 0.792                    | 0.360                      |
| 465                                         | 17.870            | 18.040            | 453.90            | 458.22            | .269              | .281              | 6.83              | 7.14              | 0.805                    | 0.366                      |