

REV.  
B

RATIONALE

THIS DOCUMENT HAS BEEN COMPLETELY REVISED AS PART OF A FIVE YEAR REVIEW TO REFORMAT IT, CORRECT DIMENSIONAL ERRORS RESULTING FROM CONVERSION TO DECIMAL INCH, UPDATE THE METRIC EQUIVALENTS, AND CORRECT SOME TYPOGRAPHICAL ERRORS.

AS35769™

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS35769B. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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

1. SCOPE

THIS STANDARD ESTABLISHES THE DIMENSIONAL AND VISUAL QUALITY REQUIREMENTS, LOT REQUIREMENTS, AND PACKAGING AND LABELLING REQUIREMENTS FOR METALLIC-ENCASED COPPER GASKETS MANUFACTURED PER AMS-HH-G-101 TYPE III - STYLE J. IT SHALL BE USED FOR PROCUREMENT PURPOSES.

1.1 APPLICATION

THESE GASKETS ARE INTENDED FOR USE IN EXHAUST SYSTEMS OF INTERNAL COMBUSTION ENGINES, AIR COMPRESSORS, AND OTHER CONNECTIONS SUBJECT TO TEMPERATURES OF 150 TO 500 °F (66 TO 260 °C) AND PRESSURES UP TO 200 PSI (1380 KPA).

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).

AMS-HH-G-101 GASKET, METALLIC-ENCASED

2.2 ASQ PUBLICATIONS

AVAILABLE FROM AMERICAN SOCIETY FOR QUALITY, 600 NORTH PLANKINTON AVENUE, MILWAUKEE, WI 53203, TEL: 800-248-1946 (UNITED STATES OR CANADA), 001-800-514-1564 (MEXICO), OR +1 414-272-8575 (ALL OTHER LOCATIONS), [WWW.ASQ.ORG](http://www.asq.org).

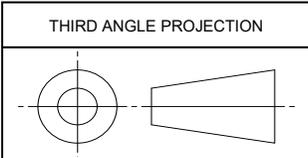
ANSI/ASQ Z1.4 SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

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 Y14.5M-1994 DIMENSIONING AND TOLERANCING REQUIREMENTS

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS35769B>



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CUSTODIAN: SAE A-6C2 SEALS PANEL

PROCUREMENT SPECIFICATION: NONE



**AEROSPACE STANDARD**

(R) GASKET, METALLIC, ENCASED, ANNULAR, COPPER

AS35769™  
SHEET 1 OF 7

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2.4 ASTM PUBLICATIONS

AVAILABLE FROM AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL, 100 BARR HARBOR DRIVE, P.O. BOX C7000, WEST CONSHOHOCKEN, PA 19428-2959, TEL: 610-832-9585, [WWW.ASTM.ORG](http://WWW.ASTM.ORG).

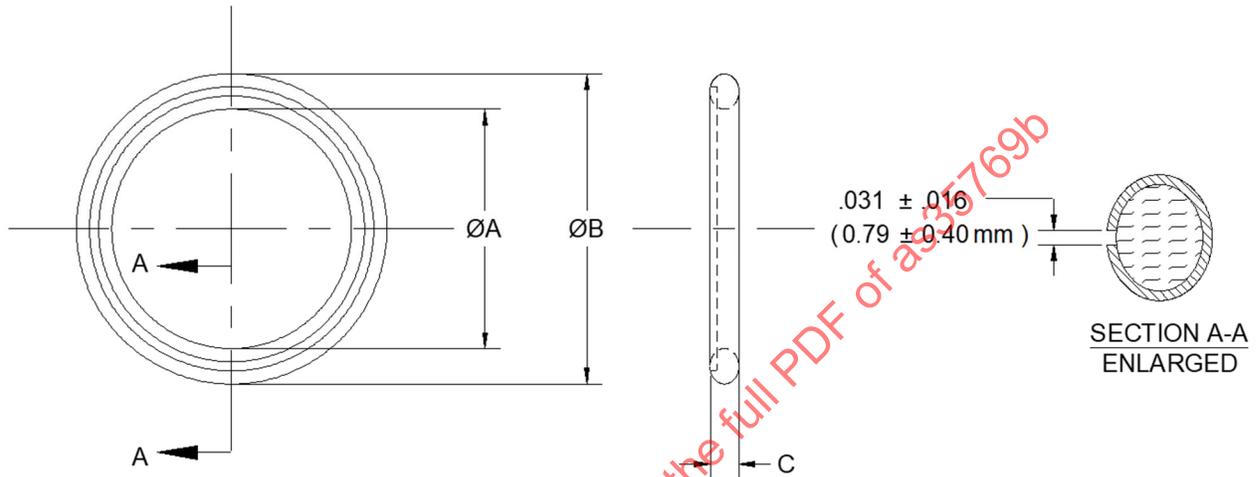
ASTM D3951 STANDARD PRACTICE FOR COMMERCIAL PACKAGING

3. GASKET PART NUMBERS AND DIMENSIONS

FIGURE 1 ILLUSTRATES THE GASKET DIMENSIONS THAT ARE USED IN THIS STANDARD.

TABLE 1 PROVIDES THE PART NUMBERS AND DIMENSIONS.

TABLE 2 PROVIDES AN900 PART NUMBERS THAT ARE CANCELED AND REPLACED BY MS35769 PART NUMBERS.



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

FIGURE 1 - GASKET DIMENSIONS: INSIDE DIAMETER ( $\text{ØA}$ ), OUTSIDE DIAMETER ( $\text{ØB}$ ), WIDTH (C)

	<b>AEROSPACE STANDARD</b>	<b>AS35769™</b> SHEET 2 OF 7	<b>REV.</b> <b>B</b>
	(R) GASKET, METALLIC, ENCASED, ANNULAR, COPPER		

**TABLE 1 - GASKET PART NUMBERS AND DIMENSIONS**

BASIC NO. MS35769 SIZE CODE	ØA (INCH) MIN	ØA (INCH) MAX	ØA (mm) MIN	ØA (mm) MAX	ØB (INCH) MIN	ØB (INCH) MAX	ØB (mm) MIN	ØB (mm) MAX	C (INCH) MIN	C (INCH) MAX	C (mm) MIN	C (mm) MAX
1	.188	.203	4.76	5.16	.422	.438	10.72	11.11	.078	.109	1.98	2.78
2	.250	.266	6.35	6.75	.484	.500	12.30	12.70	.078	.109	1.98	2.78
3	.266	.281	6.75	7.14	.359	.375	9.13	9.53	.063	.094	1.59	2.38
4	.313	.328	7.94	8.33	.422	.438	10.72	11.11	.063	.094	1.59	2.38
5	.313	.328	7.94	8.33	.547	.563	13.89	14.29	.078	.109	1.98	2.78
6	.375	.391	9.53	9.92	.609	.625	15.48	15.88	.078	.109	1.98	2.78
7	.375	.391	9.53	9.92	.859	.875	21.83	22.23	.063	.094	1.59	2.38
8	.438	.453	11.11	11.51	.672	.688	17.07	17.46	.078	.109	1.98	2.78
9	.500	.516	12.70	13.10	.734	.750	18.65	19.05	.078	.109	1.98	2.78
10	.563	.578	14.29	14.68	.797	.813	20.24	20.64	.078	.109	1.98	2.78
11	.625	.641	15.88	16.27	.859	.875	21.83	22.23	.078	.109	1.98	2.78
12	.625	.641	15.88	16.27	.984	1.000	25.00	25.40	.063	.094	1.59	2.38
13	.688	.703	17.46	17.86	.922	.938	23.42	23.81	.078	.109	1.98	2.78
14	.688	.703	17.46	17.86	.984	1.000	25.00	25.40	.078	.109	1.98	2.78
15	.750	.766	19.05	19.45	.984	1.000	25.00	25.40	.078	.109	1.98	2.78
16	.750	.766	19.05	19.45	1.109	1.125	28.18	28.58	.063	.094	1.59	2.38
17	.813	.828	20.64	21.03	1.047	1.063	26.59	26.99	.078	.109	1.98	2.78
18	.875	.891	22.23	22.62	1.109	1.125	28.18	28.58	.078	.109	1.98	2.78
19	.875	.891	22.23	22.62	1.234	1.250	31.35	31.75	.063	.094	1.59	2.38
20	.938	.953	23.81	24.21	1.172	1.188	29.77	30.16	.078	.109	1.98	2.78
21	1.000	1.016	25.40	25.80	1.234	1.250	31.35	31.75	.078	.109	1.98	2.78
22	1.000	1.016	25.40	25.80	1.484	1.500	37.70	38.10	.063	.094	1.59	2.38
23	1.000	1.016	25.40	25.80	2.547	2.563	64.69	65.09	.063	.094	1.59	2.38
24	1.063	1.078	26.99	27.38	1.297	1.313	32.94	33.34	.078	.109	1.98	2.78
25	1.063	1.078	26.99	27.38	1.422	1.438	36.12	36.51	.063	.094	1.59	2.38
26	1.125	1.141	28.58	28.97	1.359	1.375	34.53	34.93	.078	.109	1.98	2.78
27	1.125	1.141	28.58	28.97	1.609	1.625	40.88	41.28	.078	.109	1.98	2.78
28	1.125	1.141	28.58	28.97	1.734	1.750	44.05	44.45	.063	.094	1.59	2.38
29	1.188	1.203	30.16	30.56	1.422	1.438	36.12	36.51	.078	.109	1.98	2.78
30	1.250	1.266	31.75	32.15	1.359	1.375	34.53	34.93	.063	.094	1.59	2.38
31	1.250	1.266	31.75	32.15	1.484	1.500	37.70	38.10	.078	.109	1.98	2.78
32	1.250	1.266	31.75	32.15	1.734	1.750	44.05	44.45	.063	.094	1.59	2.38
33	1.313	1.328	33.34	33.73	1.547	1.563	39.29	39.69	.078	.109	1.98	2.78
34	1.313	1.328	33.34	33.73	1.672	1.688	42.47	42.86	.078	.109	1.98	2.78
35	1.375	1.391	34.93	35.32	1.609	1.625	40.88	41.28	.078	.109	1.98	2.78
36	1.375	1.391	34.93	35.32	1.734	1.750	44.05	44.45	.063	.094	1.59	2.38
37	1.375	1.391	34.93	35.32	1.984	2.000	50.40	50.80	.063	.094	1.59	2.38
38	1.438	1.453	36.51	36.91	1.672	1.688	42.47	42.86	.078	.109	1.98	2.78
39	1.500	1.516	38.10	38.50	1.734	1.750	44.05	44.45	.078	.109	1.98	2.78
40	1.500	1.516	38.10	38.50	2.047	2.063	51.99	52.39	.063	.094	1.59	2.38
41	1.563	1.578	39.69	40.08	1.797	1.813	45.64	46.04	.078	.109	1.98	2.78
42	1.625	1.641	41.28	41.67	1.859	1.875	47.23	47.63	.078	.109	1.98	2.78
43	1.625	1.641	41.28	41.67	2.047	2.063	51.99	52.39	.063	.094	1.59	2.38
44	1.625	1.641	41.28	41.67	2.109	2.125	53.58	53.98	.063	.094	1.59	2.38
45	1.625	1.641	41.28	41.67	2.234	2.250	56.75	57.15	.063	.094	1.59	2.38
46	1.688	1.703	42.86	43.26	1.922	1.938	48.82	49.21	.078	.109	1.98	2.78
47	1.688	1.703	42.86	43.26	2.172	2.188	55.17	55.56	.063	.094	1.59	2.38
48	1.750	1.766	44.45	44.85	1.984	2.000	50.40	50.80	.078	.109	1.98	2.78
49	1.750	1.766	44.45	44.85	2.109	2.125	53.58	53.98	.063	.094	1.59	2.38
50	1.750	1.766	44.45	44.85	2.484	2.500	63.10	63.50	.063	.094	1.59	2.38

	<b>AEROSPACE STANDARD</b>		<b>AS35769™</b> SHEET 3 OF 7	<b>REV.</b> <b>B</b>
	(R) GASKET, METALLIC, ENCASED, ANNULAR, COPPER			

**TABLE 1 - GASKET PART NUMBERS AND DIMENSIONS (CONTINUED)**

BASIC NO. MS35769 SIZE CODE	ØA (INCH) MIN	ØA (INCH) MAX	ØA (mm) MIN	ØA (mm) MAX	ØB (INCH) MIN	ØB (INCH) MAX	ØB (mm) MIN	ØB (mm) MAX	C (INCH) MIN	C (INCH) MAX	C (mm) MIN	C (mm) MAX
51	1.813	1.828	46.04	46.43	2.047	2.063	51.99	52.39	.078	.109	1.98	2.78
52	1.875	1.891	47.63	48.02	2.109	2.125	53.58	53.98	.078	.109	1.98	2.78
53	1.875	1.891	47.63	48.02	2.234	2.250	56.75	57.15	.063	.094	1.59	2.38
54	1.938	1.953	49.21	49.61	2.172	2.188	55.17	55.56	.078	.109	1.98	2.78
55	2.000	2.016	50.80	51.20	2.234	2.250	56.75	57.15	.078	.109	1.98	2.78
56	2.000	2.016	50.80	51.20	2.734	2.750	69.45	69.85	.063	.094	1.59	2.38
57	2.063	2.078	52.39	52.78	2.297	2.313	58.34	58.74	.078	.109	1.98	2.78
58	2.063	2.078	52.39	52.78	2.422	2.438	61.52	61.91	.063	.094	1.59	2.38
59	2.125	2.141	53.98	54.37	2.359	2.375	59.93	60.33	.078	.109	1.98	2.78
60	2.125	2.141	53.98	54.37	2.609	2.625	66.28	66.68	.063	.094	1.59	2.38
61	2.188	2.203	55.56	55.96	2.422	2.438	61.52	61.91	.078	.109	1.98	2.78
62	2.250	2.266	57.15	57.55	2.484	2.500	63.10	63.50	.078	.109	1.98	2.78
63	2.250	2.266	57.15	57.55	2.609	2.625	66.28	66.68	.063	.094	1.59	2.38
64	2.250	2.266	57.15	57.55	3.234	3.250	82.15	82.55	.063	.094	1.59	2.38
65	2.313	2.328	58.74	59.13	2.547	2.563	64.69	65.09	.078	.109	1.98	2.78
66	2.375	2.391	60.33	60.72	2.609	2.625	66.28	66.68	.078	.109	1.98	2.78
67	2.438	2.453	61.91	62.31	2.672	2.688	67.87	68.26	.078	.109	1.98	2.78
68	2.438	2.453	61.91	62.31	2.922	2.938	74.22	74.61	.063	.094	1.59	2.38
69	2.500	2.516	63.50	63.90	2.734	2.750	69.45	69.85	.078	.109	1.98	2.78
70	2.563	2.578	65.09	65.48	2.797	2.813	71.04	71.44	.078	.109	1.98	2.78
71	2.625	2.641	66.68	67.07	2.859	2.875	72.63	73.03	.078	.109	1.98	2.78
72	2.688	2.703	68.26	68.66	2.922	2.938	74.22	74.61	.063	.094	1.59	2.38
96	2.688	2.703	68.26	68.66	2.922	2.938	74.22	74.61	.078	.109	1.98	2.78
95	2.750	2.766	69.85	70.25	2.984	3.000	75.80	76.20	.078	.109	1.98	2.78
73	2.813	2.828	71.44	71.83	3.047	3.063	77.39	77.79	.078	.109	1.98	2.78
74	2.875	2.891	73.03	73.42	3.109	3.125	78.98	79.38	.078	.109	1.98	2.78
75	2.938	2.953	74.61	75.01	3.172	3.188	80.57	80.96	.078	.109	1.98	2.78
76	3.000	3.016	76.20	76.60	3.234	3.250	82.15	82.55	.078	.109	1.98	2.78
77	3.063	3.078	77.79	78.18	3.297	3.313	83.74	84.14	.078	.109	1.98	2.78
78	3.125	3.141	79.38	79.77	3.359	3.375	85.33	85.73	.078	.109	1.98	2.78
79	3.188	3.203	80.96	81.36	3.422	3.438	86.92	87.31	.078	.109	1.98	2.78
80	3.250	3.266	82.55	82.95	3.484	3.500	88.50	88.90	.078	.109	1.98	2.78
81	3.313	3.328	84.14	84.53	3.547	3.563	90.09	90.49	.078	.109	1.98	2.78
82	3.375	3.391	85.73	86.12	3.609	3.625	91.68	92.08	.078	.109	1.98	2.78
83	3.438	3.453	87.31	87.71	3.672	3.688	93.27	93.66	.078	.109	1.98	2.78
84	3.500	3.516	88.90	89.30	3.734	3.750	94.85	95.25	.078	.109	1.98	2.78
85	3.563	3.578	90.49	90.88	3.797	3.813	96.44	96.84	.078	.109	1.98	2.78
86	3.625	3.641	92.08	92.47	3.859	3.875	98.03	98.43	.078	.109	1.98	2.78
87	3.688	3.703	93.66	94.06	3.922	3.938	99.62	100.01	.078	.109	1.98	2.78
88	3.750	3.766	95.25	95.65	3.984	4.000	101.20	101.60	.078	.109	1.98	2.78
89	3.813	3.828	96.84	97.23	4.047	4.063	102.79	103.19	.078	.109	1.98	2.78
90	3.875	3.891	98.43	98.82	4.109	4.125	104.38	104.78	.078	.109	1.98	2.78
91	3.938	3.953	100.01	100.41	4.172	4.188	105.97	106.36	.078	.109	1.98	2.78
92	4.000	4.016	101.60	102.00	4.234	4.250	107.55	107.95	.078	.109	1.98	2.78
93	4.250	4.266	107.95	108.35	4.484	4.500	113.90	114.30	.078	.109	1.98	2.78
94	4.375	4.391	111.13	111.52	4.734	4.750	120.25	120.65	.078	.109	1.98	2.78

**TABLE 2 - AN900 (CANCELED) TO MS35769 PART NUMBER INTERCHANGEABILITY**

CANCELED AN900 PART NUMBER	REPLACEMENT MS35769 PART NUMBER	CANCELED AN900 PART NUMBER	REPLACEMENT MS35769 PART NUMBER
AN900-3	MS35769-1	AN900-41	MS35769-70
AN900-4	MS35769-2	AN900-42	MS35769-71
AN900-5	MS35769-5	AN900-43	MS35769-96
AN900-6	MS35769-6	AN900-44	MS35769-95
AN900-7	MS35769-8	AN900-45	MS35769-73
AN900-8	MS35769-9	AN900-46	MS35769-74
AN900-9	MS35769-10	AN900-47	MS35769-75
AN900-10	MS35769-11	AN900-48	MS35769-76
AN900-11	MS35769-13	AN900-49	MS35769-77
AN900-12	MS35769-15	AN900-50	MS35769-78
AN900-13	MS35769-17	AN900-51	MS35769-79
AN900-14	MS35769-18	AN900-52	MS35769-80
AN900-15	MS35769-20	AN900-53	MS35769-81
AN900-16	MS35769-21	AN900-54	MS35769-82
AN900-17	MS35769-24	AN900-55	MS35769-83
AN900-18	MS35769-26	AN900-56	MS35769-84
AN900-19	MS35769-29	AN900-57	MS35769-85
AN900-20	MS35769-31	AN900-58	MS35769-86
AN900-21	MS35769-33	AN900-59	MS35769-87
AN900-22	MS35769-35	AN900-60	MS35769-88
AN900-23	MS35769-38	AN900-61	MS35769-89
AN900-24	MS35769-39	AN900-62	MS35769-90
AN900-25	MS35769-41	AN900-63	MS35769-91
AN900-26	MS35769-42	AN900-64	MS35769-92
AN900-27	MS35769-46		
AN900-28	MS35769-48		
AN900-29	MS35769-51		
AN900-30	MS35769-52		
AN900-31	MS35769-54		
AN900-32	MS35769-55		
AN900-33	MS35769-57		
AN900-34	MS35769-59		
AN900-35	MS35769-61		
AN900-36	MS35769-62		
AN900-37	MS35769-65		
AN900-38	MS35769-66		
AN900-39	MS35769-67		
AN900-40	MS35769-69		

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