



MANUFACTURER'S NAME OR TRADE MARK AND NO PART NO. SHALL BE PERMANENTLY MARKED ON EITHER SIDE.

MS PART NO. (a)	ITEM	DOCS B		OUTSIDE DIA.		WIDTH V		PDR CORNER RADIUS	B RADIUS	CAPACITY		LIMIT CONTINUOUS KPM	
										(a) Co	(b) C		
		N. N.	INCH	N. N.	INCH	N. N.	INCH					(c)	
MS17107-1		10	.3937	30	1.1811	9	.3543	.030	.025	650	805	10,000	
MS17107-2		12	.4723	32	1.2598	10	.3937	.030	.025	535	1050	10,000	
MS17107-3		15	.5906	35	1.3780	11	.4331	.030	.025	600	1180	10,000	
MS17107-4		17	.6693	40	1.5788	12	.4723	.030	.025	705	1230	10,000	
MS17107-5		20	.7875	47	1.8308	14	.5512	.060	.030	1370	2710	10,000	
MS17107-6		25	.9843	52	2.0372	15	.5906	.060	.030	1560	3120	10,000	
MS17107-7		30	1.1811	62	2.4409	16	.6299	.060	.030	2730	3350	10,000	
MS17107-8		35	1.3780	72	2.8336	17	.6693	.060	.030	3050	4450	10,000	

TECHNICAL DATA FOR CLEARANCE IN .0001 INCH

INNER SIDE										OUTER SIDE									
DOCS DIA N. N.		4		V		PARALLELISM OF SIZES	DOCS OUT WITH DOCS	DOCS PARALLELISM WITH SIZES	RADIAL DISTORTION MAX.	OUTSIDE DIA N. N.		O. D. TOL.		V		PARALLELISM OF SIZES	O. D. SQUARE WITH SIZES REMARK	DOCS PARALLELISM WITH SIZES	RADIAL DISTORTION MAX.
OVER	INCH	MIN	MAX							OVER	INCH	MIN	MAX						
0	30	-0	+0	+0	-50	2	3	3	2	30	50	-2	+0	+0	-50	2	3	3	2
										50	80	-3	+0					4	3

RADIAL INTERNAL CLEARANCE (NO. LIMITS)

DOCS (B) N. N.	RADIAL PLAT .0001 IN.
10 - 17	5 - 9
18 - 29	6 - 10
30 - 50	7 - 12

(a) BASIC STATIC LOAD RATED IN POUNDS = THAT STATIC LOAD WHICH CORRESPONDS TO A TOTAL FLOORING DEFORMATION OF BALL AND RACE AT THE MOST HEAVILY LOADED CONTACT OF 0.0001 OF THE BALL DIAMETER.

(b) RADIAL DYNAMIC LOAD IN POUNDS AT 33-1/3 RPM UNDER 10⁶ REVOLUTIONS 810 LIFE; AT OTHER SPEEDS INFERRE FROM RATIO.

(c) RATED LOADS AND LIMIT KPM ARE BASED UPON GEARING INDICATION AND UPON CLEARING OPERATING TEMPERATURE NOT EXCEEDING 320°F.

(d) B = MAXIMUM FILLET RADIUS FOR MOUNTING, OR OF CHAFT WHEN CLEARING RADIUS WILL CLEAR.

(e) NO PART NUMBER -1 THRU -4 SHALL HAVE PNEUMATIC STEEL DETAILING. NO PART NUMBER -5 THRU -8 SHALL HAVE PNEUMATIC DETAILING.

MATERIALS: RINGS STEEL, S52100 PER STD 66. BALLS STEEL, S51100 PER STD 66.

FINISH ALL GRIND EDGES .0001/.0005 UNLESS OTHERWISE SPECIFIED.

INDICATION: FACE 70/80 PERCENT WITH GEARING SPECIFICATION MIL-8-81322. (A)

NOTE: THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INITIATION FOR BID.

THIS MILITARY STANDARD IS APPROVED BY THE DEPARTMENT OF DEFENSE AND IS MANDATORY OF ALL ACTIVITIES. DEVIATION FOR ALL NEW REQUIREMENTS AND CHANGES APPLICABLE AND FOR EXISTING USE SHALL BE MADE FROM THIS DOCUMENT.

P.A. AND FORCE-11(A)

TITLE

Other Code

ARMY - RT
NAVY - AS

CLEARING, BALL, AIRCRAFT, PNEUMATIC FOR AIRCRAFT
MOTOR- OPERATORS, TYPE 1

MILITARY STANDARD

MS17107

PROCUREMENT SPECIFICATION
MIL-8-22277

SUPPLEMENTS

SHEET 1 OF 1

DD FORM 672-1 (REPLACES 672-1)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 23 October 1999 REVISED 6 10 Apr 90