FED. SUP CLASS
2620

THE TIRE SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS

OF MIL-R-7726 EXCEPT AS SPECIFIED HEREIN

SIZE	PLY RATING	STATIC LOAD RATING LBS.	INFL. PRESS. PSI MIN.	BURST PRESS. PSI MIN.	BEAD WIDTH IN. MAX.	WEIGHT POUNDS MAX.	STATIC UNBAL. OZ-IN MAX.	TREAD	MOLD SKID DEPTH MIN.	DEFLEC +3% -4%
24x5.5	1/16TT	11,500	355	1245	1.4	30.0	12	2/RIB	.28	32%

1/TT-TUBE TYPE TIRE

2/THREE CONTINUOUS CIRCUMFERENTIAL GROOVES – ONE GROOVE IN CENTER OF TREAD. WIDE GROOVE CONCEPT SHALL BE USED WITH RADIUS AT BOTTOM OF GROOVES TO PRECLUDE STRESS RISERS AND CIRCUMFERENTIAL CRACKING. TREAD SHALL BE FABRIC-REINFORCED.

RIM DATA:

WIDTH BETWEEN FLANGES (INCH)	LEDGE DIAMETER (INCH)	FLANGE HEIGHT (INCH)	MIN. LEDGE WIDTH (INCH)	MIN. FLANGE WIDTH (INCH)	FLANGE RADIUS (INCH)	HEEL RADIUS (INCH)	FLANGE EDGE RADIUS (INCH)
4.250	14.00	.875	1.375	.656	.435	.219	.062

THE TIRE COVERED BY THIS DRAWING SHALL BE SUITABLE FOR USE AND PROVIDE REASONABLE SERVICE LIFE DURING ALL NORMAL OPERATIONS AT TAKE-OFF SPEEDS OF NOT MORE THAN 200 MPH AND LANDING SPEEDS OF NOT MORE THAN 185 MPH ON ALL TYPES OF RUNWAYS AND ON AIRCRAFT CARRIERS.

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THE TIRE SHALL WITHSTAND WITHOUT FAILURE THE FOLLOWING TESTS:

TIRE 1:

DYNAMIC TEST - THE TIRE SHALL WITHSTAND 25 CYCLES OF TEST "A" FOLLOWED BY 25 CYCLES OF TEST "B" WITHOUT EVIDENCE OF FAILURE.

TEST A - YAW TEST - ONE CYCLE OF TEST "A" SHALL CONSIST OF ONE CYCLE OF TEST "A_1" AND ONE CYCLE OF TEST "A_2".

TEST A_1 - 1. LAND TIRE ON FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 30 MPH WITH A PRESELECTED 3 DEGREE YAW ANGLE RELATIVE TO THE DYNAMOMETER.

2. INCREASE LOADING UNTIL THE TIRE IS LOADED WITH A RADIAL LOAD (IN THE WHEEL PLANE PERPENDICULAR TO FLYWHEEL) OF 11,500 POUNDS.

3. UNLAND THE TIRE WHEN A DISTANCE OF 300 FEET HAS BEEN COMPLETED WITH FULL LOAD.

TEST A_2 - SAME AS TEST A_1, EXCEPT THE 3 DEGREE YAW ANGLE SHALL BE APPLIED IN THE OPPOSITE DIRECTION.

TEST B - TAXI/TAKE-OFF TEST - THE VERTICAL CENTERLINE OF THE MOUNTED TIRE SHALL MAKE AN ANGLE OF 87 DEGREES WITH THE DYNAMOMETER FLYWHEEL AND THE LOAD APPLIED ON THE TIRE INBOARD SIDE. THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 30 MPH FOR 10,000 FEET WITH 11,500 POUNDS LOAD. UPON COMPLETION OF THE TAXI ROLL THE FLYWHEEL SHALL BE ACCELERATED AT AN AVERAGE RATE OF 4.6 FEET/SEC/SEC FROM 30 MPH TO A SPEED OF 200 MPH. THE TIRE SHALL BE UNLANDED AFTER A TAKE-OFF ROLL DISTANCE OF 9,000 FEET HAS BEEN COVERED IN APPROXIMATELY 53 TO 55 SECONDS. THE LOAD SHALL BE MAINTAINED AT 11,500 POUNDS FOR THE FIRST 6 SECONDS AFTER THE START OF THE TAKE-OFF ROLL, AT WHICH TIME IT SHALL BE DECREASED LINEARLY WITH TIME TO 1,000 POUNDS AT 51 SECONDS AFTER THE START OF THE TAKE-OFF ROLL AND DECREASED TO ZERO POUNDS AT THE TIME THE TIRE IS UNLANDED. THE TIRE DEFLECTION AT RATED LOAD ON THE FLYWHEEL SHALL BE THE SAME AS OBTAINED WITH THE RATED LOAD AND INFLATION PRESSURE ON A FLAT PLATE.

TIRE 2:

GOVT LAB TEST - THIS TIRE SHALL BE REBUILT FROM THE SAME BATCH AS TEST TIRE 1 AND SHALL BE IDENTICALLY PROCESSED. THIS TIRE SHALL NOT BE CONTRACTOR TESTED AND SHALL BE PROVIDED FOR GOVERNMENT LABORATORY TESTING.

SECTION - A REPRESENTATIVE SECTION OF TIRE 1 AND TIRE 2 SHALL BE SUBMITTED TO A GOVERNMENT LABORATORY AS SPECIFIED IN MS 3377.

NOTES - 1. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCE ADOPTED INDUSTRY STANDARDS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.

2. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

(A) REVISED AND REDRAWN

APPROVED 18 FEB 1969 REVISED (A) 25 JAN 1982

P.A. NAVY - AS Other Cust	TITLE TIRE, PNEUMATIC, AIRCRAFT, REBUILT 24x5.5 (200 MPH) TYPE VII (NAVY)	MILITARY STANDARD MS 3381 (AS)
PROCUREMENT SPECIFICATION MIL-R-7726	SUPERSEDES:	SHEET 1 OF 1

DD FORM 672-1 (Limited coordination)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE. PROJECT NO. 2620-N220   PLATE NO. 17709