

FED. SUP CLASS
2620

THE TIRE SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SPECIFICATION MIL-T-5041 EXCEPT AS SPECIFIED HEREIN

SIZE	PLY RATING	STATIC LOAD RATING LBS.	INFL. PRESS. PSI RATED	BURST PRESS. PSI MIN.	BEAD WIDTH INCH MAX.	WEIGHT LBS. MAX.	STATIC UNBAL. OZ. -IN. MAX.	TREAD	MOLD SKID DEPTH MIN.	DEFLECTION +3% -4%
44 x 13	26 TL 1/	35,000	210	800 2/	3.15	155	25	RIB 3/	.31	32%

- 1/ TL - TUBELESS TIRE
- 2/ NEW TIRE
- 3/ AT LEAST FOUR, BUT NOT MORE THAN SEVEN CONTINUOUS CIRCUMFERENTIAL RIBS.

THE TIRE COVERED BY THIS DRAWING SHALL BE SUITABLE FOR USE AND PROVIDE REASONABLE SERVICE LIFE DURING ALL NORMAL OPERATIONS AT TAKE-OFF AND LANDING SPEEDS INDICATED HEREIN ON ALL TYPES OF RUNWAYS AND ON AIRCRAFT CARRIERS.

THE TIRE SHALL WITHSTAND WITHOUT FAILURE THE FOLLOWING TESTS:

- (1) DYNAMIC TEST - THE TIRE SHALL SATISFACTORILY WITHSTAND 75 CYCLES OF TEST "A" FOLLOWED BY 75 CYCLES OF TEST "B" WITHOUT EVIDENCE OF FAILURE.

TEST A - THE TIRE SHALL BE LOADED AGAINST A STATIONARY FLYWHEEL AT 35,000 POUNDS. THE FLYWHEEL SHALL THEN BE ACCELERATED TO 30 MPH AND TAXIED AT THIS SPEED UNTIL A TOTAL DISTANCE OF 10,000 FEET HAS BEEN COVERED. THE FLYWHEEL SHALL THEN BE DECELERATED TO "0" MPH AND IMMEDIATELY ACCELERATED AT 3.5 FEET/SEC/SEC AVERAGE (SIMULATED TAKE-OFF) TO 200 MPH. DURING ACCELERATION, THE LOAD SHALL BE MAINTAINED AT 35,000 POUNDS FOR THE FIRST 15 SECONDS AND THEN DECREASED LINEARLY WITH TIME TO 25,000 POUNDS AFTER 50 SECONDS OF ROLL. THE LOAD SHALL BE REDUCED TO ZERO POUNDS DURING THE LAST 34 SECONDS OF ROLL. THE TOTAL ROLL DISTANCE FOR THE SIMULATED TAKE-OFF SHALL BE 12,350 ±200 FEET. AVERAGE ROLL TIME SHALL BE APPROXIMATELY 84 SECONDS.

TEST B - THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A SPEED OF 125 MPH. THE FLYWHEEL SHALL HAVE AN AVERAGE DECELERATION OF 7.5 FEET/SEC/SEC FROM 125 MPH TO 30 MPH. THE LOAD SHALL INCREASE LINEARLY FROM ZERO POUNDS AT INSTANT OF LANDING TO 10,000 POUNDS IN 4 TO 5 SECONDS; THEN INCREASED LINEARLY TO 20,000 POUNDS IN 12 SECONDS AFTER LANDING AND HELD AT THIS LOAD UNTIL THE TOTAL ROLL DISTANCE OF APPROXIMATELY 2,100 FEET HAS BEEN COVERED IN 18 TO 19 SECONDS. THE TIRE SHALL THEN BE TAXIED AT 30 MPH FOR 13,500 FEET AT THE 20,000 POUND LOAD.

- (2) BURST TEST - FOLLOWING THE ABOVE DYNAMIC TESTS THE SAME TIRE SHALL BE SUBJECTED TO A HYDROSTATIC BURST TEST. THE PRESSURE SHALL BE INCREASED UNTIL THE TIRE FAILS AND THE FAILING PRESSURE, DESCRIPTION OF FAILURE AND LOCATION OF FAILURE SHALL BE REPORTED IN THE QUALIFICATION TEST REPORT.

AIR RETENTION - AIR RETENTION SHALL BE IN ACCORDANCE WITH MIL-T-5041. INFLATION PRESSURE SHALL BE 320 PSI.

WEAR DEPTH INDICATORS - AN EVEN NUMBER OF TREAD WEAR INDICATORS SHALL BE EQUIDISTANTLY SPACED AROUND THE TIRE TO ESTABLISH ALLOWABLE TREAD WEAR TO 1/32 INCH ABOVE THE BOTTOM OF THE TREAD GROOVES. OBLONG HOLES (1 x 1/4 INCH) OR ROUND HOLES (5/8 INCH DIAMETER) SHALL BE LOCATED IN THE TREAD RIBS. FILLETS (1/2 INCH LONG) SHALL BE LOCATED IN THE TREAD GROOVES. THE NUMBER OF INDICATORS SHALL BE DETERMINED BY DIVIDING THE CIRCUMFERENCE OF THE TIRE BY THE LENGTH OF ITS FOOTPRINT AND ADDING ONE WHEN THE RESULT YIELDS AN ODD NUMBER.

QUALIFICATION TEST REPORT - THE QUALIFICATION TEST REPORT SHALL LIST THE RESULTS OF ALL QUALIFICATION TESTS AND THE CONSTRUCTION DETAILS OF THE QUALIFICATION TEST SAMPLE IN THE GENERAL FORM SHOWN IN FIGURE 6 OF SPECIFICATION MIL-T-5041 WITH DIMENSIONS LISTED AT RATED INFLATION. IN ADDITION, IT SHALL ALSO LIST THE ACTUAL TIRE DIMENSIONS WHEN THE TIRE IS INFLATED TO 250 PSI. THE REPORT SHALL INDICATE THE MANUFACTURER'S TEST NUMBER FOLLOWED BY THE LETTERS "AS". SUBMIT TWO (2) COPIES OF THE QUALIFICATION TEST REPORT, TOGETHER WITH THE DATA AND MATERIAL SPECIFIED ABOVE, TO THE NAVAL AIR SYSTEMS COMMAND, DEPARTMENT OF THE NAVY, WASHINGTON, DC 20361, ATTENTION: AIR-530321.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

(A) ENTIRE STANDARD REVISED

P.A. NAVY - AS Other Cust	TITLE	MILITARY STANDARD
AIR FORCE - 70	TIRE, PNEUMATIC, AIRCRAFT, 44 x 13 HIGH SPEED - TYPE VII	MS26557
PROCUREMENT SPECIFICATION MIL-T-5041	SUPERSEDES: USAF DWG 64D30453	SHEET 1 OF 1

USER SYMBOLS:

REVIEWER SYMBOLS:

*Review/user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current ODDISS.

This military standard is approved for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 5/22/58 REVISED (A) 27 MAY 1975