

FED. SUP CLASS
2620

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

MS PART NO.	SIZE	PLY RATING	STATIC LOAD RATING LBS.	VERT LOAD LBS. min.	INFL. PRESS PSI RATED	BURST PRESS PSI 2/ min.	BEAD WIDTH IN. max.	WEIGHT POUNDS max.	STATIC UNBAL. oz - in. max.	TREAD 3/	MOLD SKID DEPTH min.	DEFLEC. + 3% - 4
MS26535-1	18x5.5	8TT	3,050	21,400	105	430	1.15	12.5	10	R1b	0.24	32.0%
MS26535-2	18x5.5	8TL	3,050	21,400	105	430	1.25	13.5	10	R1b	0.24	32.0%
MS26535-3	18x5.5	12TT	5,050	32,800	175	765	1.25	16.0	10	R1b	0.24	32.0%
MS26535-4	18x5.5	12TL	5,050	32,800	175	765	1.40	17.5	10	R1b	0.24	32.0%
MS26535-5	18x5.5	14TT	6,200	40,000	200	900	1.35	20.0	10	R1b	0.24	32.0%
MS26535-6	18x5.5	14TL	6,200	40,000	200	900	1.50	21.5	10	R1b	0.24	32.0%

- 1/ TT Tubetype Tire
TL Tubeless Tire
- 2/ New Tire
- 3/ At least three, 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 SPEEDS OF NOT MORE THAN 160 MPH AND LANDING SPEEDS OF NOT MORE THAN 140 MPH ON ALL TYPES OF RUNWAYS AND ON AIRCRAFT CARRIERS.

THE TIRE SHALL WITHSTAND WITHOUT FAILURE THE TESTS SPECIFIED IN PARAGRAPHS (1), (2) AND (4).

- (1) BRUISE TESTS - THE TIRE SHALL BE INFLATED WITH AIR TO 165 PSI FOR 8 PR, 270 PSI FOR 12 PR, AND 300 PSI FOR 14 PR AND LOADED AGAINST A ONE AND THREE EIGHTHS INCH (1-3/8") DIAMETER LENGTH OF PLAIN ROUND BAR STOCK. A VERTICAL LOAD AS APPLICABLE TO THE PLY RATING SPECIFIED ABOVE SHALL BE APPLIED WITH THE VERTICAL CENTER-LINE OF THE MOUNTED TIRE MAKING AN ANGLE OF 90 DEGREES WITH THE PLATEN. IMMEDIATELY FOLLOWING THE RELEASE OF THIS LOAD THE TIRE SHALL BE SUBJECTED TO THE SAME LOADING CONDITION AT A SPOT 180 DEGREES FROM THE INITIAL POINT OF LOADING.
- (2) DYNAMIC TEST - FOLLOWING THE ABOVE BRUISE TEST THE SAME TIRE SHALL BE SUBJECTED TO 25 DYNAMOMETER LANDINGS AT A SPEED OF 120 MPH WITH AN UNLANDING SPEED CALCULATED TO MAKE THE TIRE ABSORB 80% OF THE INITIAL FLY WHEEL ENERGY WHEN COMPUTED IN ACCORDANCE WITH MIL-T-5041. THE STATIC LOAD SHALL BE AS APPLICABLE TO THE PLY RATING SPECIFIED ABOVE AND THE INFLATION PRESSURE VARIED AS NECESSARY TO PRODUCE A STATIC DEFLECTION OF 32% ON THE FLYWHEEL SURFACE.
- (3) BURST TEST - FOLLOWING THE ABOVE DYNAMIC TEST THE SAME TIRE SHALL BE SUBJECTED TO A HYDROSTATIC BURST. THE PRESSURE SHALL BE INCREASED UNTIL THE TIRE FAILS AND THE FAILING PRESSURE REPORTED IN THE QUALIFICATION TEST REPORT.
- (4) DYNAMOMETER TEST - A NEW TIRE SHALL BE SUBJECTED TO 50 HIGH SPEED (120-90 MPH) AND 50 LOW SPEED (90-0 MPH) LANDINGS AS DESCRIBED IN MIL-T-5041.

NOTE - WHEN THE CONSTRUCTION OF THE CONVENTIONAL AND TUBELESS TIRES IS IDENTICAL, EXCEPT FOR THE TUBELESS TIRE INNER LINER, ONLY THE TUBELESS TIRE NEED BE QUALIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DRAWING.

AIR RETENTION - THE TUBELESS TIRE SHALL BE INFLATED TO A PRESSURE OF 150 PSI FOR 8 PR, 260 PSI FOR 12 PR, AND 300 PSI FOR 14 PR, AND ALLOWED TO STAND FOR A PERIOD OF 24 HOURS AT WHICH TIME THE PRESSURE DROP DUE TO GROWTH SHALL BE REPLACED. THE TIRE SHALL THEN STAND FOR AN ADDITIONAL 24 HOURS AT WHICH TIME THE PRESSURE SHALL BE MEASURED AND THE TIRE INSPECTED. THE AIR PRESSURE LOSS SHALL NOT EXCEED 5 PERCENT AND THE TIRE SHALL NOT REVEAL ANY APPEARANCE AND PERFORMANCE DEFECTS SUCH AS SIDEWALL BLISTERS, TREAD SEPARATION, ETC.

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 FIGURES 2&3 OF MIL-T-5041. IN ADDITION IT SHALL ALSO INCLUDE THE ACTUAL INFLATED PROFILE AND DIMENSIONS WHEN THE TIRE IS INFLATED TO 165 PSI FOR 8 PR, 270 PSI FOR 12 PR, AND 300 PSI FOR 14 PR. THE REPORT SHALL INDICATE THE MANUFACTURER'S TEST NUMBER. TWO (2) COPIES OF THE QUALIFICATION TEST REPORT, TOGETHER WITH THE DATA AND MATERIAL SPECIFIED ABOVE AND IN MIL-T-5041, SHALL BE SUBMITTED TO THE NAVAL AIR SYSTEMS COMMAND, WASHINGTON, DC 20361 ATTENTION AIR-53032.

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.

(C) DENOTES CHANGES

The military standard is approved by NAVAL AIR SYSTEMS COMMAND, Department of the Navy and shall be used by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 29 JAN 1957 REVISED (B) 20 MAR 81 (C) 29 JULY 83

P.A. NAVY - AS Other Cost	TITLE	MILITARY STANDARD
	TIRE, PNEUMATIC, AIRCRAFT, 18 x 5.5 TYPE VII (NAVY)	MS26535(AS)
PROCUREMENT SPECIFICATION MIL-T-5041	SUPERSEDES.	SHEET OF