PROJECT NO 2620-N085

FED SUP CLASS 2620

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

MS PART NO.	SIZE	TYPE	PLY RATING	STATIC LOAD RATING LBS.	VERT LOAD LBS. (MIN)	INFL. PRESS PSI (MAX)	BURST PRESS. PSI (MAX)	BEAD WIDTH IN. (MAX)	WEIGHT LBS. (MAX)	STATIC UNBAL. OZ-IN	TREAD	MOLD SKID DEPTH (MIN)	DEFL. +3% -4%
MS26538-1	20X4.4	TT 1/	10	4250	30,000	190	855	1.15	13.5	11	3/Rib	0.18	32.0%
MS26538-2	20x4.4	TL 1/	10	4250	30,000	190	855	1.30	15.6	11	3/Rib	0.18	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 ON NAVY CARRIER TYPE AIRCRAFT DURING ALL NORMAL OPERATIONS AT TAKE-OFF SPEEDS OF NOT MORE THAN 140 KNOTS AND LANDING SPEEDS OF NOT MORE THAN 120 KNOTS 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 275 PSI AND LOADED AGAINST A ONE AND THREE EIGHTHS INCH (1-3/8") DIAMETER LENGTH OF PLAIN ROUND BAR STOCK. A LOAD OF 30,000 POUNDS SHALL BE APPLIED WITH THE VERTICAL CENTER-LINE OF THE MOUNTED TIRE OR CASING 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 SPECIFICATION MIL-T-5041. THE LOAD SHALL BE 4,250 POUNDS AND THE INFLATION PRESSURE VARIED AS NECESSARY TO PRODUCE A STATIC DEFLECTION OF 32% ON THE FLY-WHEEL SURFACE.

(3) BURST TEST - FOLLOWING THE ABOVE DYNAMIC TEST THE SAME TIRE SHALL BE SUBJECTED TO A HYDRO-STATIC BURST TEST. 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 SPECIFICATION MIL-T-5041.

NOTE - WHEN THE CONSTRUCTION OF THE CONVENTIONAL AND TUBELESS TIRES ARE 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 - AIR RETENTION TEST SHALL BE IN ACCORDANCE WITH MIL-T-5041 AT 285 PSI.

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 AND 3 OF SPECIFICATION MIL-T-5041. IN ADDITION IT SHALL ALSO LIST THE ACTUAL TIRE DIMENSION WHEN THE TIRE IS INFLATED TO 275 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 SYSTEM COMMAND, DEPARTMENT OF THE NAVY, WASHINGTON, DC 20361, ATTN: 530321.

REFERENCED DOCUMENTS SHALL BE OF THE ISSSUE IN EFFECT ON DATE OF INVITATION FOR BID.

(B) ENTIRE STANDARD REVISED

APPROVED 1/29/57 REVISED (A) 12/1/61 (B) 20 JUN 1975

P A	TITLE	
NAVY - AS Other Cust	TIRE, PNEUMATIC, AIRCRAFT, 20x4.4 TYPE VII (NAVY)	MILITARY STANDARD MS26538(AS)
PROCUREMENT SPECIFICATION MIL-T-5041	SUPERSEDES	SHEET 1 OF 1

DD FORM MAR 1 672-1 (Limited coordination)