

FLD. 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 RATED	BEAD WIDTH INCH MAX.	WEIGHT POUNDS MAX.	STATIC UNBAL. OZ-IN. MAX.	TREAD	MOLD SKID DEPTH MIN.	DEFLEC +3% -4%
22X6.75-10	18 TL 1/	10,600	245	2.05	28.0	10	RIB 2/	.30	32%
METRIC: 558.6X171.5-254mm									

1/ TL- TUBELESS TIRE

2/ AT LEAST FOUR, BUT NOT MORE THAN SEVEN CONTINUOUS CIRCUMFERENTIAL RIBS. THE GROOVES SHALL BE SHAPED SUCH THAT FOREIGN OBJECTS WILL NOT BECOME TRAPPED BETWEEN THE RIBS.

TIRE DATA (INCH) (STATIC TEST TIRE)

INFLATED OUTSIDE DIAMETER		INFLATED SECTION WIDTH		INFLATED SHOULDER DIAMETER	INFLATED SHOULDER WIDTH
MIN.	MAX.	MIN.	MAX.	MAX.	MAX.
21.35	22.33	6.35	6.96	20.00	6.00

RIM DATA (INCH)

WIDTH BETWEEN FLANGES	FLANGE WIDTH	LEDGE DIAMETER	LEDGE WIDTH	FLANGE HEIGHT	HEEL RADIUS	FLANGE RADIUS
5.50	0.75	10.00	2.05	1.00	0.50	.625

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

FOUR TIRES SHALL BE SUBMITTED BY THE CONTRACTOR. THE TIRES SHALL BE REBUILT USING THE SAME COMPOUNDS AND PROCESSING TECHNIQUES. TIRES SHALL BE EXAMINED AS SPECIFIED BELOW:

TEST INFLATION PRESSURE - UNLESS OTHERWISE SPECIFIED, INFLATION PRESSURE FOR ALL DYNAMIC TESTS SHALL BE ADJUSTED TO ENSURE TIRE DEFLECTION WITHIN DESIGN LIMITS.

TIRE 1:

DIMENSIONS - THE TIRE SHALL BE INFLATED TO 245 PSI AND ALLOWED TO STAND FOR 4 HOURS MINIMUM AT ROOM TEMPERATURE AFTER WHICH TIME THE PRESSURE DUE TO GROWTH SHALL BE REPLACED. THE REBUILT TIRE DIMENSIONS AT 320 PSI SHALL BE WITHIN THE DIMENSIONAL LIMITS SPECIFIED ABOVE.

DYNAMIC TEST - THE TIRE SHALL WITHSTAND 60 CYCLES OF TEST A, 60 CYCLES OF TEST B, 1 CYCLE OF TEST C, 15 CYCLES OF TEST D, AND 20 CYCLES OF TEST E, WITHOUT FAILURE OR VISIBLE DETEIORATION OTHER THAN NORMAL EXPECTED TREAD WEAR.

TIRE 2:

DYNAMIC TEST - THE TIRE SHALL WITHSTAND 1 CYCLE OF TEST F, 15 CYCLES OF TEST A AND 15 CYCLES OF TEST B WITHOUT EVIDENCE OF FAILURE.

DYNAMIC TESTS:

TEST A - TAXI-TAKEOFF - THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 23 MPH FOR 10,000 FEET WITH 4,000 POUNDS LOAD. AFTER 10,000 FEET, THE FLYWHEEL SHALL IMMEDIATELY BE ACCELERATED AT AN AVERAGE RATE OF 12.7 FT./SEC./SEC. FROM 23 MPH TO 75 MPH, THEN INCREASED FROM 75 TO 155 MPH AT AN AVERAGE ACCELERATION RATE OF 6.25 FT/SEC/SEC. THE TIRE SHALL BE UNLANDED AFTER A TAKEOFF ROLL DISTANCE OF 3650 FEET HAS BEEN COVERED IN APPROXIMATELY 25 SECONDS. THE INITIAL LOAD OF 4,000 POUNDS SHALL BE DECREASED LINEARLY WITH TIME TO 2,200 POUNDS AT THE TIME THE TIRE IS UNLANDED.

TEST B - LANDING - TAXI - THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 127 MPH, THE FLYWHEEL SPEED SHALL THEN BE DECREASED UNTIL A ROLL DISTANCE OF APPROXIMATELY 2960 FEET HAS BEEN COVERED. THE AVERAGE DECELERATION RATE SHALL BE 2.02 FEET/SEC/SEC BETWEEN 127 AND 116 MPH, 8.97 FEET/SEC/SEC BETWEEN 116 AND 80 MPH, AND 13.02 FT/SEC/SEC BETWEEN

P.A. NAVY - AS Other Cust	TITLE TIRE, PNEUMATIC, AIRCRAFT, REBUILT, 22X6.75-10	MILITARY STANDARD MS14185(AS)
PROPOSED T SPECIFICATION MIL-R-7726	REMARKS	SHEET 1 OF 2

APPROVED 21 JULY 1978 REVISED

This 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.

DD FORM 672-1 (Limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PROJECT NO. 2620-N139

PLATE NO. 23071

FED. SUP CLASS
2620

80 MPH AND 0 MPH. THE TIRE LOAD SHALL BE INCREASED TO 2,000 POUNDS IN 2 SECONDS AFTER LANDING, THEN LINEARLY INCREASED TO 8,800 POUNDS WHEN THE TIRE IS STOPPED AFTER 24 SECONDS. IMMEDIATELY FOLLOWING THE LANDING, THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 23 MPH FOR 10,000 FEET UNDER 3,700 POUNDS LOAD.

TEST C - OVERLOAD LANDING TAXI - CONDITIONS AS FOR TEST B EXCEPT THE FOLLOWING: LINEARLY INCREASE TO 17,000 POUNDS TO 12,000 POUNDS DURING LANDING. TAXI THE TIRE ON THE FLYWHEEL UNDER A 5,500 POUND LOAD.

TEST D - CATAPULT TAKEOFF - THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 106 MPH WITH 17,500 POUNDS LOAD FOR A DISTANCE OF 300 FEET, THEN UNLANDED. 320 PSI FLAT PLATE INFLATION PRESSURE SHALL BE USED FOR THIS TEST.

TEST E - YAW LANDING - THE TIRE SHALL BE SUBJECTED TO 10 CYCLES OF TEST E₁ AND 10 CYCLES OF TEST E₂ FOR A TOTAL OF 20 CYCLES.

E₁ - THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 120 MPH WITH A PRE-SELECTED 5 DEGREE YAW ANGLE RELATIVE TO THE DYNAMOMETER. THE TIRE LANDING LOAD SHALL BE INCREASED TO 8000 POUNDS. THE LOAD SHALL BE MAINTAINED FOR A MINIMUM ROLL DISTANCE OF 200 FEET AT 120 MPH AFTER WHICH TIME THE TIRE IS UNLANDED.

E₂ - SAME AS E₁ EXCEPT THE 5 DEGREE YAW ANGLE SHALL BE APPLIED IN THE OPPOSITE DIRECTION.

TEST F - COMBINED LOAD TEST - A TIRE INFLATED TO 320 PSI SHALL BE SIMULTANEOUSLY STATIC LOADED WITH A COMBINATION 17,600 POUND VERTICAL LOAD AND 8,000 POUND SIDE LOAD AND HELD FOR 3 SECONDS. THERE SHALL BE NO SLIPPAGE, OR TREAD FAILURE.

TIRES 3 AND 4: TIRES 3 AND 4 SHALL NOT BE SUBJECTED TO CONTRACTOR TESTING; HOWEVER, A HALF SECTION OF TIRE 3 AND THE COMPLETE TIRE 4, ALONG WITH A REPRESENTATIVE HALF SECTION OF TIRES 1 AND 2 AFTER DYNAMIC TESTS SHALL BE SUBMITTED TO THE COGNIZANT GOVERNMENT LABORATORY AS SPECIFIED IN MS3377.

NOTES:

1. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
2. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

APPROVED 21 JULY 1978 REVISED

P.A. NAVY - AS Other Cust	TITLE TIRE, PNEUMATIC, AIRCRAFT, REBUILT, 22X6.75-10	MILITARY STANDARD MS14185 (AS)
PROCUREMENT SPECIFICATION MIL-R-7726	SUPERSEDES.	
		SHEET 2 OF 2

DD FORM 1307-1 (Limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 22071