

APPROVED 8 OCT 85

FED. SUP CLASS
2620

- TEST C EXTENDED TAXI - SHORT-TAKE-OFF. THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 34.5 MPH FOR 13,200 FEET WITH 8100 POUND LOAD. UPON COMPLETION OF THE TAXI ROLL, THE FLYWHEEL SHALL BE STOPPED, THEN IMMEDIATELY ACCELERATED AT AN AVERAGE RATE OF 15.97 FT/SEC/SEC FROM 0 TO 136 MPH. THE TIRE SHALL BE UNLANDED AFTER A TAKE-OFF ROLL OF 1240 FEET HAS BEEN COVERED IN 12 TO 13 SECONDS. THE INITIAL LOAD OF 8100 POUNDS SHALL BE LINEARLY DECREASED WITH TIME TO 4650 POUNDS AT 11.5 SECONDS, THEN LINEARLY DECREASED TO 0 POUNDS AT THE TIME THE TIRE IS UNLANDED.
- TEST D CONVENTIONAL TAKE-OFF (OVERSPEED). THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 34.5 MPH FOR 9000 FEET WITH 8100 POUND LOAD. UPON COMPLETION OF THE TAXI ROLL, THE FLYWHEEL SHALL BE STOPPED, THEN IMMEDIATELY ACCELERATED AT AN AVERAGE OF 14.78 FT/SEC/SEC FROM 0 TO 230 MPH. THE TIRE SHALL BE UNLANDED AFTER A TAKE-OFF ROLL OF 3850 FEET HAS BEEN COVERED IN 22 TO 23 SECONDS. THE INITIAL LOAD OF 8100 POUNDS SHALL BE LINEARLY DECREASED WITH TIME TO 5000 POUNDS AT 11 SECONDS, THEN LINEARLY DECREASED TO 0 POUNDS AT THE TIME THE TIRE IS UNLANDED.
- TEST E SHORT LANDING/TAXI. THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 118 MPH. THE FLYWHEEL SPEED SHALL BE DECREASED UNTIL A ROLL DISTANCE OF 2600 FEET HAS BEEN COVERED. THE AVERAGE RATE OF DECELERATION SHALL BE 5.76 FT/SEC/SEC FROM 118 MPH TO 0 MPH. THE LOAD SHALL BE INCREASED TO 2000 POUNDS IN 3.1 SECONDS, THEN LINEARLY INCREASED WITH TIME TO 5100 POUNDS AT THE END OF THE TOTAL LANDING TIME OF APPROXIMATELY 30 SECONDS. IMMEDIATELY AFTER THE LANDING, THE TIRE SHALL BE TAXIED ON THE FLYWHEEL FOR 9000 FEET AT 34.5 MPH WITH 5100 POUND LOAD. COMPLETE 28 CYCLES. COOL, RUN 29TH CYCLE WITH TIRE UNDERINFLATED 20 PERCENT.
- TEST F ROLLING VERTICAL LANDING/TAXI. THE TIRE SHALL BE LANDED AGAINST THE FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 69 MPH. THE FLYWHEEL SPEED SHALL BE DECREASED UNTIL A ROLL DISTANCE OF APPROXIMATELY 775 FEET HAS BEEN COVERED. THE AVERAGE DECELERATION RATE SHALL BE 6.61 FT/SEC/SEC BETWEEN 69 MPH AND 0 MPH. THE TIRE LOAD SHALL BE INCREASED FROM 0 TO 3000 POUNDS AS RAPIDLY AS POSSIBLE, THEN LINEARLY INCREASED WITH TIME TO 5100 POUNDS AT THE END OF THE TOTAL LANDING TIME OF APPROXIMATELY 15 SECONDS. IMMEDIATELY AFTER THE LANDING, THE TIRE SHALL BE TAXIED ON THE FLYWHEEL FOR 9000 FEET AT 34.5 MPH WITH 5100 POUND LOAD.
- TEST G CONVENTIONAL LANDING/TAXI. THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 183 MPH. THE FLYWHEEL SPEED SHALL BE DECREASED UNTIL A ROLL DISTANCE OF 6680 FEET HAS BEEN COVERED. THE AVERAGE DECELERATION RATE SHALL BE 5.39 FT/SEC/SEC BETWEEN 183 MPH AND 0 MPH. THE TIRE LOAD SHALL BE LINEARLY INCREASED WITH TIME FROM 0 TO 2000 POUNDS AT 7 SECONDS, THEN LINEARLY INCREASED TO 4000 POUNDS AT 24.5 SECONDS, THEN LINEARLY INCREASED TO 4800 POUNDS AT THE END OF THE TOTAL LANDING TIME OF APPROXIMATELY 50 SECONDS. IMMEDIATELY AFTER THE LANDING, THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 34.5 MPH FOR 9000 FEET WITH 5100 POUND LOAD.
- TEST H SHORT LANDING/EXTENDED TAXI. THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 118 MPH. THE FLYWHEEL SPEED SHALL BE DECREASED UNTIL A ROLL DISTANCE OF 2600 FEET HAS BEEN COVERED. THE AVERAGE DECELERATION RATE SHALL BE 5.76 FT/SEC/SEC FROM 118 MPH TO 0 MPH. THE LOAD SHALL BE INCREASED TO 2000 POUNDS IN 3.1 SECONDS, THEN LINEARLY INCREASED WITH TIME TO 5100 POUNDS AT THE END OF THE TOTAL LANDING TIME OF APPROXIMATELY 30 SECONDS. IMMEDIATELY AFTER THE LANDING, THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 34.5 MPH FOR 13,200 FEET WITH 5100 POUND LOAD.
- TEST J REJECTED TAKE-OFF. THIS TEST SHALL CONSIST OF THE PROCEDURE OF TEST "A" TO SIMULATE TAKEOFF, FOLLOWED IMMEDIATELY BY LANDED THE TIRE AGAINST THE FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 138 MPH AND AN IMMEDIATE TIRE LOADING OF 4750 POUNDS. THE FLYWHEEL SPEED SHALL BE DECREASED UNTIL A ROLL DISTANCE OF APPROXIMATELY 3800 FEET HAS BEEN COVERED. THE AVERAGE DECELERATION RATE SHALL BE 5.39 FT/SEC/SEC BETWEEN 138 MPH AND 0 MPH. THE INITIAL LOAD OF 4750 POUNDS SHALL BE LINEARLY INCREASED WITH TIME TO 6700 POUNDS AT 20 SECONDS, THEN LINEARLY INCREASED TO 7150 POUNDS AT THE END OF THE TOTAL LANDING TIME OF APPROXIMATELY 37 SECONDS. IMMEDIATELY AFTER LANDING, THE TIRE SHALL BE TAXIED ON THE FLYWHEEL AT 34.5 MPH FOR 9000 FEET WITH 7150 POUND LOAD.
- TEST K₁ TURNING TAXI (LEFT). THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 34.5 MPH WITH 7580 POUND LOAD FOR 300 FEET WITH THE PLANE OF THE TIRE YAWED LEFT TO PRODUCE A SIDE LOAD OF 2100 POUNDS.
- TEST K₂ TURNING TAXI (RIGHT). SAME AS K₁, EXCEPT WITH THE PLANE OF THE TIRE YAWED RIGHT TO PRODUCE A SIDE LOAD OF 2100 POUNDS.
- TEST L BURST TEST. THE TIRE SHALL BE SUBJECTED TO A HYDROSTATIC BURST TEST. THE PRESSURE SHALL BE INCREASED UNTIL THE TIRE FAILS. THE FAILING PRESSURE, DESCRIPTION OF FAILURE, AND LOCATION OF FAILURE SHALL BE REPORTED IN THE QUALIFICATION TEST REPORT.
- TEST I BRUISE TEST. A TIRE INFLATED TO 125 PSI SHALL BE LOADED AGAINST A 1-3/8 INCH DIAMETER LENGTH OF PLAIN ROUND BAR STOCK OR ARRESTING GEAR CABLE WITH A VERTICAL LOAD OF 12050 POUNDS. IMMEDIATELY FOLLOWING THE RELEASE OF THIS LOAD THE TIRE SHALL BE SUBJECTED TO THE SAME LOADING CONDITION AT A LOCATION 180 DEGREES IN ROTATION FROM THE INITIAL POINT OF LOADING.

QUALIFICATION TEST REPORT - THE QUALIFICATION TEST REPORT SHALL LIST THE RESULTS OF ALL QUALIFICATION TESTS AND CONSTRUCTION DETAILS OF THE QUALIFICATION TEST SAMPLE IN THE GENERAL FORM SHOWN IN FIG. 2 & 3 OF MIL-T-5041 WITH DIMENSIONS LISTED AT RATED INFLATION. A SKETCH OF THE TIRE PROFILE AT RATED INFLATION SHALL BE INCLUDED IN THE REPORT. THE REPORT SHALL LIST THE MANUFACTURER'S TEST NO. SUBMIT TWO COPIES OF THE QUALIFICATION TEST REPORT, TOGETHER WITH THE DATA AND MATERIAL SPECIFIED ABOVE AND IN MIL-T-5041 TO THE NAVAL AIR SYSTEMS COMMAND, WASHINGTON, D.C. 20361, ATTN: AIR 53032

NOTES

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

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P.A. NAVY - AS Other Cust	TITLE TIRE, PNEUMATIC, AIRCRAFT, RADIAL PLY CONSTRUCTION, 26 X 7.75R13 (NAVY) (AV-8B MLG)	MILITARY STANDARD	
		MS14483(AS)	
PROCUREMENT SPECIFICATION	SUPERSEDES	SHEET	2 OF 2