Cessna 182T Skylane

**Performance – Standard Specifications**

**SPEED**

Maximum at Sea Level ....................................................... 150 KTS

Cruise, 80% Power at 7000 Ft .......................................... 145 KTS

**CRUISE**

Using recommended lean mixture with fuel allowance for engine start, taxi, takeoff, climb and 45 minutes reserve.

75% Power at 8000 Ft ................................................ Range 813NM

87 Gallons Usable Fuel ................................................ Time 5.8 HRS

RATE OF CLIMB AT SEA LEVEL: .............................................. 924 FPM

SERVICE CEILING: ................................................................. 18,100 FT

**TAKEOFF PERFORMANCE:**

Ground Roll ................................................................. 795 FT

Total Distance Over 50 Ft. Obstacle ......................... 1514 FT

**LANDING PERFORMANCE:**

Ground Roll ................................................................. 590 FT

Total Distance Over 50 Ft. Obstacle ......................... 1350 FT

**STALL SPEED (KCAS):**

Flaps Up, Power Off ......................................................... 51 KCAS

Flaps Down, Power Off .................................................... 49 KCAS

**MAXIMUM WEIGHT:**

Ramp ................................................................. 3110 LBS

Takeoff ................................................................. 3100 LBS

Landing ................................................................. 2950 LBS
STANDARD EMPTY WEIGHT: .................................................... 1918 LBS
MAXIMUM USEFUL LOAD: ......................................................... 1192 LBS
BAGGAGE ALLOWANCE: ............................................................. 200 LBS
WING LOADING: Lbs/Sq Ft .............................................................. 17.8
POWER LOADING: Lbs/HP ............................................................... 13.5
FUEL CAPACITY: ........................................................................ 92 GAL
OIL CAPACITY: ............................................................................ 9 QTS
ENGINE: Textron Lycoming ............................................... IO-540-AB1A5, 230 BHP at 2400 RPM
PROPELLER: Diameter – 3-blade .................................................... 79 IN

AIRSPEEDS - NORMAL OPERATIONS

Takeoff:
Normal Climb Out ........................................................70 – 80 KIAS
Short Field Takeoff, Flaps 20º, Speed at 50 ft ....................... 60 KIAS

Enroute Climb, Flaps Up:
Normal, sea level ............................................................. 85 – 95 KIAS
Best Rate-of-Climb, Sea level ........................................... 82 KIAS
Best Rate-of-Climb, 10,000 ft ........................................... 77 KIAS
Best Angle-of-Climb, Sea level ........................................ 65 KIAS
Best Angle-of-Climb, 10,000 ft ...................................... 68 KIAS

Landing Approach (2950 Lbs):
Normal Approach Flaps Up ........................................... 70 – 80 KIAS
Normal Approach, Flaps FULL ........................................... 60 – 70 KIAS
Short Field Approach, Flaps FULL ..................................... 60 KIAS
Balked Landing (2950 Lbs):
Maximum Power, Flaps 20º ........................................... 55 KIAS
**V-Speeds:**

Vne (never exceed) .......................................................... 175 KIAS

Vno (Maximum structural cruising speed) ............................ 140 KIAS

Vfe (Flaps 10°) ................................................................. 140 KIAS

Vfe (Flaps 20°) ................................................................. 120 KIAS

Vfe (Flaps 30°) ................................................................. 100 KIAS

**Maximum Recommended Turbulent Air Penetration Speed:**

3100 Lbs ......................................................................... 110 KIAS

2600 Lbs ......................................................................... 101 KIAS

2100 lbs ............................................................................ 91 KIAS

**Maximum Demonstrated Crosswind Velocity:**

Takeoff or landing ............................................................ 15 KNOTS

**Stall Speed:**

Flaps Up, Power Off ............................................................ 51 KIAS

Flaps Down, Power Off ........................................................ 41 KIAS

**POWER PLANT**

Oil Type: ........................................................................ W100 / 15W50

**Oil Quantities:**

Maximum: ...........................................9 QTS (Long Flights) / 8 QTS

Minimum: (Company policy) ................................................... 6 QTS

**FUEL SYSTEM**

Total Capacity: .................................................. 92.0 gallons.
Total Usable: ..................................................... 88.0 gallons.

Fuel Consumption per hour: ........................................ 14.5 gallons.

Approved Fuels:

Option A ......................................... 100LL Grade Aviation Fuel (Blue)
Option B .......................................... 100 Grade Aviation Fuel (Green)

TIRE PRESSURES

Nose wheel: ................................................................. 49 PSI
Main wheels: ............................................................... 42 PSI

MANEUVER / LOAD LIMITS

Flight Load Factors:

Flaps Up ................................................................. +3.8g, -1.52g
Flaps Down .............................................................. +2.0g