

# Cessna 182T Skylane

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## ***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

***AIRSPEDS - NORMAL OPERATIONS***

Takeoff:

Normal Climb Out .....70 – 80 KIAS  
Short Field Takeoff, Flaps 20°, 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 20° ..... 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

Engine operating limits including RPM, pressures, and temperatures, can be found by referring to the green arcs and red lines on applicable gauges.

Detailed information can also be found in the approved flight manual.

**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