

Operating Limitations: AS 350 B2 SD2 Ecureuil

MTOW	Without external load	Maximum	2250 kg
	With external load		2500 kg
	On hook		1160 kg
Speed (Vne)	Power-on	Maximum	155 kts -3kts/1000 ft Alt
	Power-off		125 kts -3kts/1000 ft Alt
	All Doors removed		110 kts
	LH Sliding door open		135 kts
	LH Sliding door opening		110 kts
	LH Sliding door closing		80 kts
Altitude	Pressure Altitude	Maximum	17'500 ft
Temperature	OAT	Minimum	- 40°C
		Maximum	ISA + 35°C or + 50° C
Main Rotor	Power-on	In stabilized flight	385 – 394 RPM
		On ground at low pitch	375 – 385 RPM
	Power-off	Maximum	430 RPM
		Minimum	320 RPM
Rotor brake application	Maximum	140 RPM (170 RPM high winds)	
Power Turbine Speed (N2)	Continuous power	Maximum continuous	110.8%
		Minimum	95.3%
Torque	IAS > 40 kts	Maximum continuous	94 %
	IAS < 40 kts	Maximum continuous	100 %
		Maximum transient (10 sec)	107 %
Gas Generator	Flight	Maximum continuous	104.8%
		Maximum take-off (5 min)	106.6% Below 0°C OAT, reduce by 1% for every 5°C below 0°C OAT
		Maximum transient (5 sec)	107.2%
	Idle	Minimum	67% Ng
T4 Temperature	Engine start	Maximum	944°C
	Take-off	Maximum transient (30 sec)	944°C
		Maximum	923°C
	In-flight	Maximum continuous	845°C
Engine Oil	Pressure	Idle 50-70% oil temp >10°C	1.4 bar
		Idle 50-70% oil temp <10°C	3.4 bar
		Max. transient cold oil	8.3 bar (24.1 bar spikes)
		Normal operation	5.5 – 6.9 bar
	Temperature	Maximum OAT >38°C	110°C
Maximum OAT <38°C		99°C	
Fuel	Pressure	Low	0.0 – 0.4 bar
	Capacity	Main Tank	540 liters
	Flow	Per hour	~180 liters
Battery		Normal	26 -29 Volt
		High	29 – 31.5 Volt
		Maximum	31.5 Volt, 150 Ampère
Slope landings	Nose-up	Maximum	10°
	Nose-down		6°
	Sideways		8°
Pilot & Pax	Pilot	Minimum	1 (in right hand seat)
	Persons carried	Maximum	6 (pilot included)

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