



Operating Limitations: AS 350 B3 Ecureuil

MTOW	Without external load	Maximum	2250 kg	
	With external load		2800 kg	
	On hook		1400 kg	
Speed (Vne)	Power-on	Maximum	155 kts -3kts/1000 ft Alt (OAT < -30°C -10kts)	
	Power-off		125 kts -3kts/1000 ft Alt (OAT < -20°C -20kts; Min 65kts)	
	All Doors removed		70 kts	
	LH Sliding door open		135 kts	
	LH Sliding door opening		110 kts	
	LH Sliding door closing		80 kts	
	With external load		Maximum	80 kts
	Vy (best ROC)		Maximum	65 kts
Altitude	Pressure Altitude	Maximum	23'000 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)		
Free Turbine	Continuous power	Maximum	418 RPM	
	Transient limits (5 sec)	Maximum	450 RPM	
		Minimum	349 RPM	
Torque	IAS > 40 kts	Maximum continuous	92.7 %	
	IAS < 40 kts	Maximum continuous	100 %	
		Maximum transient (10 sec)	104 %	
Gas Generator	Flight	Maximum continuous	- 4.0 ΔNg / 97.1% Ng	
		Maximum take-off (5 min)	+ 0.0 ΔNg / 101.1% Ng (P2 OFF)	
		Maximum transient (5 sec)	+1 ΔNg / Ng = 102.3%	
T4 Temperature	Engine start	Maximum	750°C	
		Maximum transient (10 sec)	865°C	
	Take-off	Maximum	915°C	
	In-flight	Maximum	849°C	
Engine Oil	Pressure	Low	1.1 bar	
		Normal	2.0 – 6.0 bar	
		Maximum engine start	9.0 bar	
	Temperature	Maximum	115°C	
Fuel	Capacity	Main Tank	540 liter	
	Flow	Per hour	~180 liter	
Battery		Normal	26 -29 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)	