

Business Helicopter - Emission Indices and Fuel Flow Rates

Mode	Aircraft	Engine Model	Unadjusted Emission Index (g/kg of fuel)							Unadjusted Fuel Flow (kg/s)	Fuel Sulphur Content
			CO	HC ^[2]	VOC ^[2]	NO _x	SO ₂	RSP ^[3]	FSP ^[3]		
Approach	Eurocopter AS355N Twin Squirrel	ARRIUS 1A	17.50	13.80	15.87	4.06	1.33	0.15	0.15	0.0245	0.068
Taxi-out	Eurocopter AS355N Twin Squirrel	ARRIUS 1A	114.44	85.77	98.64	1.55	1.33	0.11	0.11	0.0114	0.068
Taxi-in	Eurocopter AS355N Twin Squirrel	ARRIUS 1A	166.26	123.36	141.87	1.28	1.33	0.11	0.11	0.0097	0.068
Takeoff	Eurocopter AS355N Twin Squirrel	ARRIUS 1A	7.88	6.35	7.30	6.11	1.33	0.19	0.19	0.0332	0.068
Cruising ^[1]	Eurocopter AS355N Twin Squirrel	ARRIUS 1A	7.88	6.35	7.30	6.11	1.33	0.19	0.19	0.0332	0.068

Note:

[1] No emission indices for cruising mode are available from FOCA. Since power setting of take-off and cruising (95% and 90%) is similar, the emission indices of take-off is adopted for cruising for conservative analysis.

[2] VOC/HC Emission Conversion Factor is 1.15

[3] PM₁₀(RSP)/PM_{2.5}(FSP) Emission Conversion Factor is 1.00