

IAS - TAS Table

P.A.	TAS			
	T-ISA	IAS	-20°C	ISA
0 15°C	90	87	90	93
	100	96	100	103
	110	106	110	114
	120	116	120	124
	130	125	130	134
	140	135	140	145
	150	145	150	155
	160	154	160	165
2000 11°C	90	89	93	96
	100	99	103	106
	110	109	113	117
	120	119	124	128
	130	129	134	139
	140	139	144	149
	150	149	154	160
	160	159	165	170
4000 7°C	90	92	95	99
	100	102	106	110
	110	112	117	121
	120	123	127	132
	130	133	138	143
	140	143	149	154
	150	153	159	165
	160	164	170	176
6000 3°C	90	95	98	102
	100	105	109	113
	110	116	120	125
	120	126	131	136
	130	137	142	147
	140	147	153	158
	150	158	164	170
	160	168	175	181
8000 -1°C	90	97	101	105
	100	108	113	117
	110	119	124	128
	120	130	135	140
	130	141	146	152
	140	152	158	163
	150	162	169	175
	160	173	180	186

P.A.	TAS			
	T-ISA	IAS	-20°C	ISA
10000 -5°C	90	101	105	108
	100	112	116	120
	110	123	128	133
	120	134	140	148
	130	145	151	157
	140	157	163	169
	150	168	174	181
	160	179	186	193
12000 -9°C	90	104	108	112
	100	115	120	124
	110	127	132	137
	120	138	144	149
	130	150	156	162
	140	162	168	174
	150	173	180	187
	160	185	192	199
14000 -13°C	90	107	111	116
	100	119	124	129
	110	131	130	141
	120	143	149	154
	130	155	161	167
	140	167	174	180
	150	179	186	193
	160	191	198	206
16000 -17°C	90	111	115	120
	100	123	128	133
	110	135	140	146
	120	148	153	160
	130	160	166	173
	140	172	179	186
	150	184	19	199
	160	197	204	213
18000 -21°C	90	114	119	123
	100	127	132	137
	110	140	146	151
	120	152	159	165
	130	165	172	179
	140	178	185	192
	150	190	198	206
	160	203	212	220

Conversion

Kts	NM/min	mph	sm/min
60	1	69	1.15
75	1.25	86.25	1.43
90	1.50	103.5	1.72
100	1.66	115	1.91
110	1.83	126.5	2.10
120	2.00	138	2.30
130	2.17	149.5	2.49
150	2.50	172.5	2.87
180	3.00	207	3.45
200	3.33	230	3.83

1 kts = 1,15 mph

IAS to TAS Rule of thumb: Add 2% Per 1000' of altitude.

PIREP FORM

(www.aopa.org/asf/skyspotter)

Location _____ Time _____ Altitude _____
 A/C Type _____ Clouds _____
 Vis/Precip _____ Temp _____ Wind _____
 Turb/Icing _____ Remarks _____

VFR-ON-TOP Clearance

- Permits operations above, below and between layers
- Maintain appropriate VFR altitudes
- Both VFR and IFR rules apply
- Report reaching VFR-On-Top & prior to any alt. changes
- Separation is not always provided

REQUIRED IFR REPORTS

- ANY TIME HOLDING
- Vacating assigned altitude * Time and altitude reaching a holding fix or clearance point
- Changing "VFR-On-Top" altitude * Leaving assigned holding fix/point
- Unable 500FPM climb or descent
- Missed approach WHEN NOT IN RADAR CONTACT
- TAS change 10 kts or 5% * Leaving FAF (or procedure) inbound
- NAV or comm. Loss or impairment * Revised estimate . 3 minutes
- Anything affecting flight safety * Where charted or on request
- Hazardous/not forecast weather