

Scuba Information.xls

Equivalent Narcosis Depth for various heliair mixtures at Depth.

HELIAIR PPO2 and ENDs														
Depth		18/14	17/19	16/24	15/28	14/33	13/38	12/43	11/49	10/59	09/57	08/62	07/67	06/72
	160	PO2	1.05	0.99	0.94	0.88	0.82	0.76	0.70	0.64	0.58	0.53	0.47	0.41
END		133	123	114	106	96	87	77	65	60	50	40	31	21
180	PO2	1.16	1.10	1.03	0.97	0.90	0.84	0.77	0.71	0.65	0.58	0.52	0.45	0.39
	END	150	140	129	121	110	99	88	75	69	59	48	37	26
200	PO2	1.27	1.20	1.13	1.06	0.99	0.92	0.85	0.78	0.71	0.64	0.56	0.49	0.42
	END	168	156	144	135	123	112	100	85	79	67	55	44	32
220	PO2	1.38	1.30	1.23	1.15	1.07	1.00	0.92	0.84	0.77	0.69	0.61	0.54	0.46
	END	185	172	159	150	137	124	111	95	89	76	63	50	37
240	PO2	1.49	1.41	1.32	1.24	1.16	1.08	0.99	0.91	0.83	0.74	0.66	0.58	0.50
	END	202	188	174	164	150	136	123	105	98	84	71	57	43
260	PO2	1.60	1.51	1.42	1.33	1.24	1.15	1.07	0.98	0.89	0.80	0.71	0.62	0.53
	END	219	204	190	178	164	149	134	115	108	93	78	63	49
280	PO2	1.71	1.61	1.52	1.42	1.33	1.23	1.14	1.04	0.95	0.85	0.76	0.66	0.57
	END	236	221	205	193	177	161	145	125	118	102	86	70	54
300	PO2	1.82	1.72	1.61	1.51	1.41	1.31	1.21	1.11	1.01	0.91	0.81	0.71	0.61
	END	254	237	220	207	190	174	157	136	127	110	93	77	60
320	PO2	1.93	1.82	1.71	1.60	1.50	1.39	1.28	1.18	1.07	0.96	0.86	0.75	0.64
	END	271	253	235	222	204	186	168	146	137	119	101	83	65
340	PO2		1.92	1.81	1.70	1.58	1.47	1.36	1.24	1.13	1.02	0.90	0.79	0.68
	END		269	250	236	217	198	179	156	146	128	109	90	71
360	PO2			1.91	1.79	1.67	1.55	1.43	1.31	1.19	1.07	0.95	0.83	0.71
	END			265	251	231	217	191	166	156	136	116	96	76
380	PO2				1.88	1.75	1.63	1.50	1.38	1.25	1.13	1.00	0.88	0.75
	END				265	244	223	202	176	166	145	124	103	82
400	PO2				1.97	1.84	1.71	1.57	1.44	1.31	1.18	1.05	0.92	0.79
	END				279	257	236	214	186	175	153	131	110	88
420	PO2					1.92	1.78	1.65	1.51	1.37	1.24	1.10	0.96	0.82
	END					271	248	225	196	185	162	139	116	93
440	PO2						1.86	1.72	1.58	1.43	1.29	1.15	1.00	0.86
	END						260	236	206	195	171	147	123	99
460	PO2						1.94	1.79	1.64	1.49	1.34	1.20	1.05	0.90
	END						273	248	217	204	179	154	129	104
480	PO2							1.87	1.71	1.55	1.40	1.24	1.09	0.93
	END							259	227	214	188	162	136	110
500	PO2							1.94	1.78	1.62	1.45	1.29	1.13	0.97
	END							271	237	223	196	169	142	115

The chart above gives the Equivalent Narcosis Depth (END) in feet sea water, and partial pressure of oxygen (ppO2) in atmospheres absolute for various heliair mixtures at depth. To use the chart find the desired maximum depth (fsw) in the left column, follow the column to the right until the desired ppO2 or END is located. Follow the column upwards to the top row to find the percentage of oxygen and helium (O2/He) required to give the desired results. Note that the gray area indicate a partial pressure of oxygen greater than 1.6 ATA and that these percentages should be avoided due to the increased risk of oxygen toxicity. Also note that ENDs greater than 130 fsw are not recommended dur to impairment from nitrogen narcosis.