

PROPRIETA' TERMICHE DELL'ARIA A ELEVATE TEMPERATURE

THERMAL PROPERTIES OF AIR AT ELEVATED TEMPERATURES

Temperatura Temperature deg. (°C)	Densità Density (kg/m ³)	Volume 1kg aria secca Volume of 1kg of dry air (m ³)	Rapporto volume espanso Ratio of volume expansion	Contenuto termico Heat content of dry air	
				(kcal/kg)	(kcal/m ³)
20	1.208	0.8278	1.015	1.005	1.23
40	1.130	0.8843	1.084	5.855	7.18
60	1.062	0.9408	1.154	10.71	13.14
80	1.002	0.9973	1.222	15.57	19.08
100	0.9489	1.0539	1.292	20.44	25.06
125	0.8893	1.1244	1.378	26.54	32.52
150	0.8367	1.1951	1.466	32.65	40.05
200	0.7482	1.3363	1.638	44.95	55.10
250	0.6767	1.4776	1.809	57.36	70.22
300	0.6177	1.6189	1.982	69.88	85.55
350	0.5687	1.7601	2.155	82.54	101.06
400	0.5259	1.9014	2.332	95.34	116.93
450	0.4895	2.0426	2.501	108.3	132.60
500	0.4578	2.1839	2.675	121.8	149.19
550	0.4300	2.3252	2.849	132.1	161.86
600	0.4054	2.4664	3.024	142.4	174.59
700	0.3637	2.7490	3.371	169.5	207.85
800	0.3298	3.0315	3.713	197.0	241.28
900	0.3017	3.3140	4.068	225.0	276.18
1000	0.2780	3.5966	4.398	253.4	309.86
1100	0.2577	3.8791	4.748	282.45	345.71
1200	0.2402	4.1616	4.161	311.5	381.66
1400	0.2115	4.7267	4.729	371.3	455.00
1600	0.1889	5.2917	5.291	432.9	530.50



Headquarters
Esa S.r.l.
Via E. Fermi 40 I-24035 Curno (BG) - Italy
Tel. +39.035.6227411 - Fax +39.035.6227499
esa@esacombustion.it - www.esapyronics.com

International Sales
Pyronics International S.A./N.V.
Zoning Ind., 4ème rue B-6040 Jumet - Belgium
Tel +32.71.256970 - Fax +32.71.256979
marketing@pyronics.be