

There are no translations available.

## Air Properties

Temperature, density, specific heat, thermal conductivity, expansion coefficient, kinematic viscosity and Prandtl's number for temperatures ranging  $-150^{\circ}\text{C}$  -  $400^{\circ}\text{C}$

Common properties for air are indicated the table below

	Temperature	
- t - ( <sup>o</sup> )	( <sup>o</sup> C)	Density
- ρ - (kg/m <sup>3</sup> )		Specific heat capacity
- c <sub>p</sub> - (kJ/kg K)		
- λ - (W/m K)		
- ν - (m <sup>2</sup> /s) x 10 <sup>-6</sup>		
- Pr - (1/K) x 10 <sup>-3</sup>		Prandtl's number
- P <sub>r</sub> -		
	-150	2.793
	-100	1.980
	-50	1.534
	0	1.293

20	1.205
40	1.127
60	1.067
80	1.000
100	0.946
120	0.898
140	0.854

160 0.815

180 0.779

200 0.746

250 0.675

300 0.616

350 0.566

400 0.524