ISO 2533:1975-05 (E)

Standard Atmosphere

Contents

Page

1 Scope and field of application 1

2 Basic principles and calculation formulae 1
2.1 Primary constants and characteristics 1
2.2 The equation of the static atmosphere and the perfect gas law 2
2.3 Geopotential and geometric altitudes; acceleration of free fall 2
2.4 Atmospheric composition and air molar mass 2
2.5 Physical characteristics of the atmosphere at mean sea level 3
2.6 Temperature and vertical temperature gradient 3
2.7 Pressure 4
2.8 Density and specific weight 4
2.9 Pressure scale height 4
2.10 Air number density 4
2.11 Mean air-particle speed 4
2.12 Mean free path of air particles 4
2.13 Air-particle collision frequency 4
2.14 Speed of sound 4
2.15 Dynamic viscosity 5
2.16 Kinematic viscosity 5
2.17 Thermal conductivity 5

3 Tables of the ISO Standard Atmosphere 5