All Setup Conditions in Ansys Fluent

Solver : Density-Based, Absolute Velocity Formation, Transient 2D axisymmetric analysis

Fluid : Rocket Fuel (Mixture of RP-1 and LOX)

          Density   : Ideal Gas

          Cp   : piecewise-linear

          Thermal Conductivity : Constant

          Viscosity   : Sutherland

          Molecular Mass   : 23.8144

Inlet Absolute Pressure : 30 bar

Inlet Temperature : 3567.0178 K

Outlet Pressure : 1.01325 bar

Outlet Temperature : 300 K