

Define reactants and species to be considered

Reactants

Air

Products

Air ions

List of Species

- eminus
- Ar
- Arplus
- C
- ...

% Fuel 0

O/F Inf

Phi -

Species	N° moles	Mole fraction	Type	Temperature [K]
N2	3.7276	0.7808	Inert	300
Ar	0.0447	0.0094	Inert	300
CO2	0.0015	0.0003	Inert	300
O2	1.0000	0.2095	Oxidizer	300

Select Problem Type

SHOCK_I: Planar incident shock wave

☐ Frozen chemistry

Define state of reactants and products

Reactants

300

Temperature [K]

1

Pressure [bar]

Additional constraints

Reactants

[347.21:3.47:2]

Shock velocity [m/s]

Calculate

[1:0.01:60]

Mach number [-]

Clear

Welcome to Combustion Toolbox v0.9.6 --- A MATLAB-GUI based open-source tool for solving combustion problems.