

EXPLO5

THERMOCHEMICAL COMPUTER CODE

The EXPLO5™ is a multipurpose tool able to predict the energetic properties of single compounds or mixtures, the explosibility of possibly dangerous substances, the performance indicators of ideal and non-ideal explosives and propellants and the pyrotechnic compositions on a basis of chemical formula, heat of formation, and density. The code includes a large database of reactants and products.



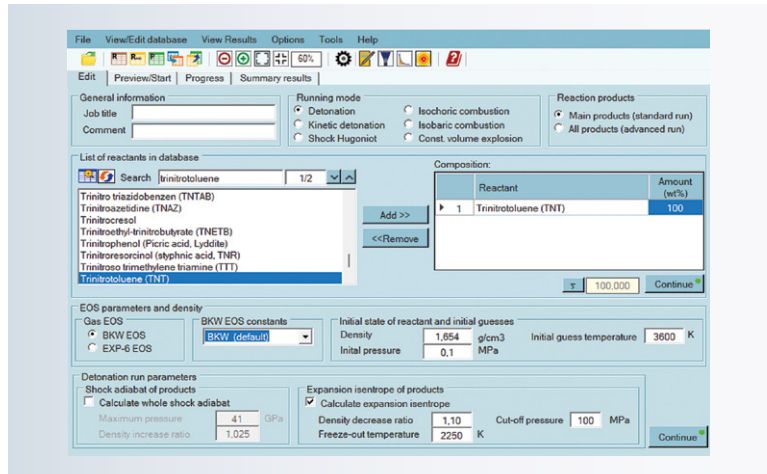
Current version: 7.01

EXPLO5 SOFTWARE IS DEVELOPED BY DR. MUHAMED SUĆESKA

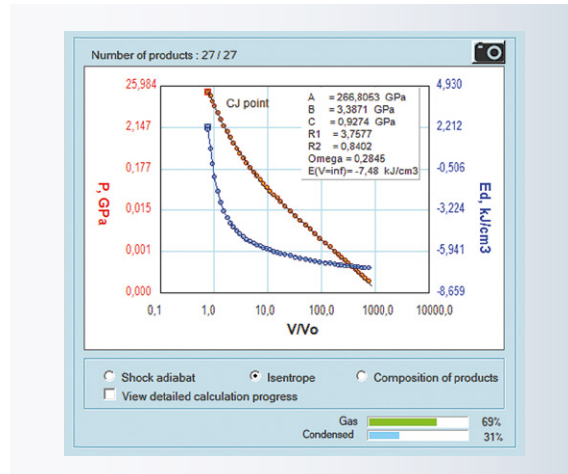
APPLICATIONS

The EXPLO5 may be used for a wide range of applications including safety management within chemical/pharmaceutical labs, the numerical modelling of energetic materials, the design of new energetic compounds, and the optimization of industrial blasting agents.

Typical users of the code are synthetic chemists, risk assessment managers, blasting engineers, researchers and any other specialists in the fields of energetic materials.



Input window of the EXPLO5



Calculation of the detonation products expansion

ADVANTAGES & FEATURES

- ▶ Calculation of combustion and detonation processes
- ▶ Around 950 reactants (explosives and components) and 1 040 products in the database
- ▶ 51 different chemical elements available
- ▶ Non-ideal detonation calculations
- ▶ User training via live teleconference
- ▶ **NEW** The Blast wave parameters tool allows to calculate air blast overpressure and impulse generated by explosives in various situations

COMPLIANCE

- **EN 13631-15:2005** Explosives for Civil Uses – High explosives, Part 15: Calculation of thermodynamic properties



OZM Research s.r.o.

Bliznovice 32, 538 62 Hrochuv Tynec

CZECH REPUBLIC / European Union

Tel.: +420 469 692 341

Mobile: +420 608 742 777

E-mail: ozm@ozm.cz

www.ozm.cz