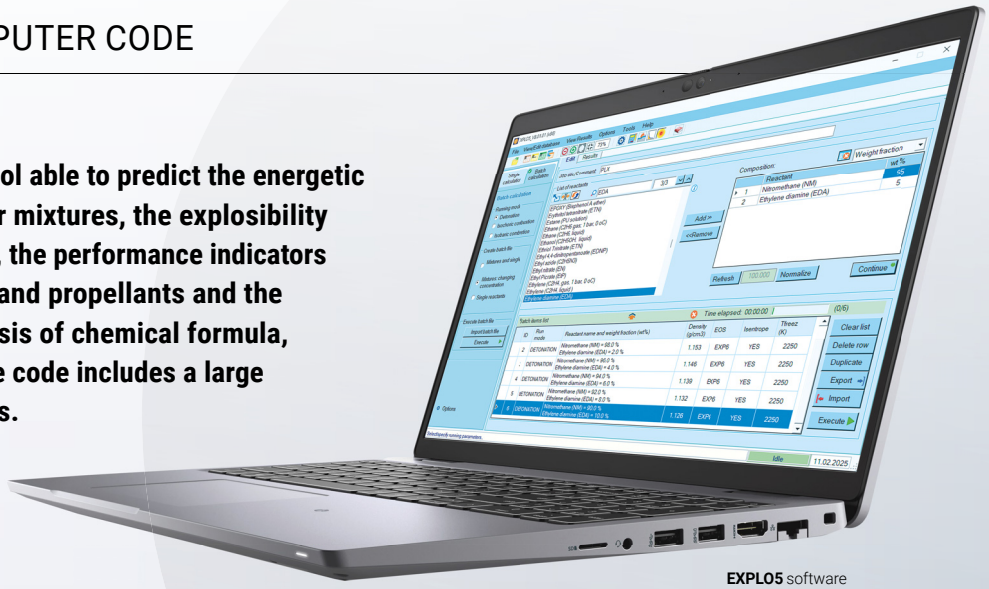
EXPLO5

THERMOCHEMICAL COMPUTER CODE

BATCH CALCULATIONS OPTION!

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.



EXPLO5 software
Is developed by Prof. 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.

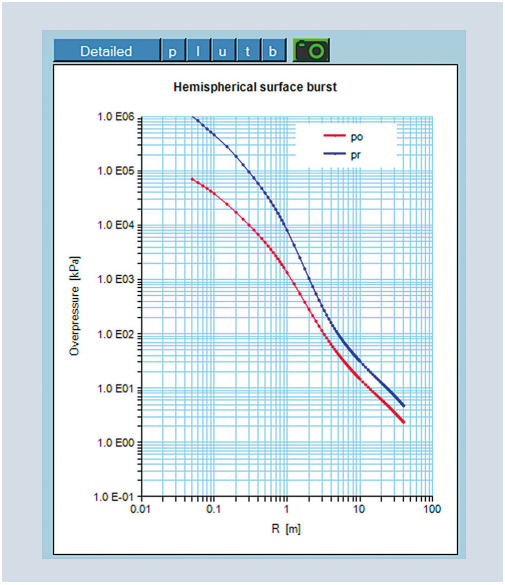
Typical users of the code are synthetic chemists, risk assessment managers, blasting engineers, researchers and any other specialists in the fields of energetic materials.

ADVANTAGES & FEATURES

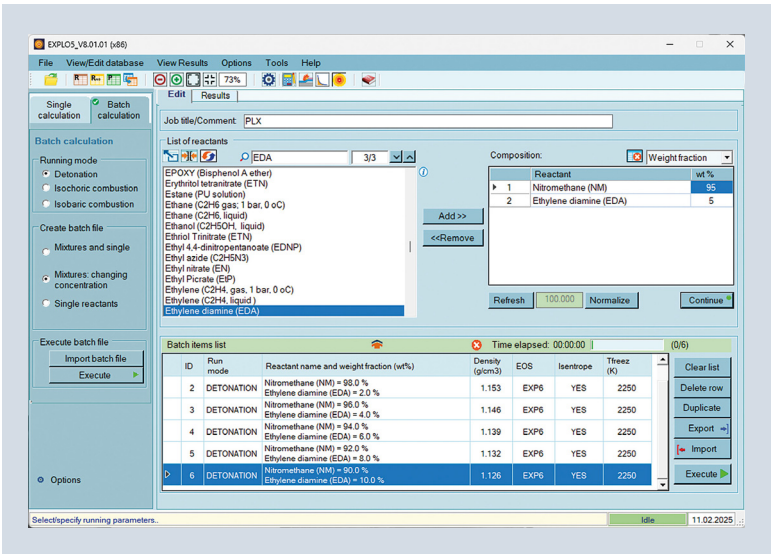
- Ideal detonation, non-ideal detonation, combustion
- Single or batch mode
- Over 1,000 reactants (explosives, mixtures and additives)
- More than 1,050 of individual products in the database
- 52 chemical elements available
- Gurney model and Blast wave parameters tools
- User training via live teleconference

COMPLIANCE

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



Blast wave parameters tool to calculate aerial shockwaves



Input window of the EXPLO5

OZM Research s.r.o.
Bliznovice 32, 538 62 Hrochuv Tynec
CZECH REPUBLIC / European Union
Mobile: +420 778 456 409
E-mail: ozm@ozm.cz
www.ozm.cz

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