



«NITRO SIBIR» AO

Postal address:
13 Staraya Basmannaya St., Apt.3
Moscow, 105064

Business Center 'Riga Land', Building 5,
Entrance 1, 4th floor 26th km 'Baltiya' highway,
Krasnogorsky district, Moscow region

phone/fax: +7 495 780 52 53
e-mail: reception@nitros.ru
www.nitros.ru/en/

DISCLAIMER: The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used. While NITRO SIBIR makes every effort to ensure the details contained in the document are as accurate as possible, the conditions under which the products are used are not within its control. Each user is responsible for being aware of the details in the document and the product applications in the specific context of the intended use. If technical advice is required in the specific application of the products then you should contact NITRO SIBIR for assistance. To the full extent permitted by law, NITRO SIBIR makes no warranties in relation to the products it sells and bears no risk, responsibility or liability arising from the use of the products and the information in this document by the buyer or user of the products.

SOFTWARE FOR CALCULATION OF RATIONAL PARAMETERS OF DRILLING AND BLASTING OPERATIONS



www.nitros.ru



The modular software package developed by 'NITRO SIBIR' AO for drilling and blasting operations is being developed since 2009 with the purpose of improving and advancing the methodology of 'NITRO SIBIR' AO in drilling and blasting operations and IT-automation of mining specialists work.

The software package uses the methodology of calculations created for the effective use of emulsion explosives and tested in all mining and geological conditions.

The software package is able to perform the following tasks:

- Calculate and model the parameters of drilling and charging for 3 types of industrial charges (continuous, combined, decked) with simultaneous output of the blasting results forecast based on the fractional composition of the blasted rock and the average rock size.
- Calculate the strength of explosives taking into account energetic characteristics of the explosive composition used as well as the physical and structural properties of the rock mass by the 'NITRO SIBIR' AO patented method.
- Assess the actual structural properties of the blasted rock based on the free face photograph.
- Assess the actual fractional composition of the blasted rock.
- Select the effective diameter of drilling for given rocks and mining equipment.
- Calculate blasting and drilling parameters ensuring the fractional composition of the blasted rock mass being the closest to the Customer requirements.
- Conduct a comparative technical and economic assessment of the possible drilling and blasting parameters.
- Prepare design documentation.
- Carry out calculations of drilling and blasting parameters for underground mining operations.

