

METHANE DETONIT – Permitted explosive

1. TECHNICAL REQUIREMENTS:

- 1.1 Explosive effect by Trauzl: min 180cm³
- 1.2 Brisance by Hess: min 9 mm
- 1.3 Transmission of detonation: min 3 cm.
- 1.4 Chemical stability at 75 Celsius deg. (Abel Test): 15 min.
- 1.5 Humidity max: 1.0%
- 1.6 safety load determined in mortar with central hole without steaming, at blasting in:
 - Air + Methane (9+/-1.0% vol) respectively air + methane (3.5+/-0.5% vol)
 - Coal dust suspension (330 g/m³): min 1.000 g.
- 1.7 Oxygen balance: positive
- 1.8 Shelf life: min 6 months
- 1.9 Diameter: 30 mm/Cart.weight : 150 g.
32 mm/Cart.weight : 200 g.

2. PACKING

Each box must have a label on front wall containing the following specifications:

- 2.1 Manufacturer
- 2.2 Product name , type and standard (or manufacturing technical specification)
- 2.3 Cartridges number, diameter and weight.
- 2.4 Batch number and production date
- 2.5 Box number
- 2.6 Gross and net weight
- 2.7 Packing operator's code
- 2.8 Shelf life from production date
- 2.9 Min and max temp. for transporting/storing and handling the explosive.
- 2.10 CE mark

2.11 The packing must comply to the conditions of packing and transport required by the international norms for transporting explosive materials (RID class 1.1 D , UN 0081 or ADR E8 , Civil use explosives type A)

2.12 The labels are in English language.

3.DELIVERY AND DOCUMENTS

At delivery the remaining shelf life must be min.80%

In whole lots of 16 tons , accompanied by the following documents (in English language , too):

3.1 CE Certificate

3.2 CE Conformity Declaration issued by the manufacturer

3.3 Test Certificate regarding the use in damp mines (gas and coal dust atmosphere)

It also must be issued by a European Notified Body and contain:

- Testing report regarding the safety use of the explosives in methane and coal dust atmosphere
- Testing report establishing the sensitivity to the detonation transmission of the cartridge explosives.
- Testing report regarding the humidity of the explosives.
- The explosive quantity that is mandatory to test in the mortar with central channel is min 1000 g.

3.4 There must be made 5 trails in air-methane atmosphere with 8-10% methane concentration and 5 trails

In air - methane – coal dust atmosphere with a methane concentration of 3.5-4.5% and a quantity of coal dust of 330g/m³. The coal dust must be put in suspension one second before the detonation of the explosive charge in the mortar. All these 10 trails must be recorded in the testing report and the results must be : NO IGNITION

In the conclusion , the report must specify that the explosive is safe for use in damp underground coal mines.

The dust coal used for the trails must fulfill the following conditions:

100% passing through 0.5 mm sieve and 50% passing through 0.075 mm sieve. All these conditions are imposed

By the national standard for permissible explosives trails. The reports issued by the producer are not accepted.

Each box must contain (in English)

- MSDS
- Guarantee certificate
- Quality certificate
- Instruction for use.