

DINITROBENZOFUROXAN (DNBF)

Leading worldwide specialist in the field of high explosives, EURENCO offers its customers a complete range of high explosives and compositions like DNBF, owing to high-tech manufacturing capabilities.



PRODUCT

- Trade name: DNBF
- Chemical name:
 - 4,6-dinitro-2,1,3-benzoxadiazole-1-oxide
 - dinitrobenzofuroxan
- Chemical formula: $C_6H_2N_4O_6$
- Production capacity: industrial production

CHARACTERISTICS

- Appearance: solid product in ambient conditions
- DNBF is delivered in a wet powder form (moisture rate $\geq 15\%$)
- Melting point: 168 - 172°C
- Solubility in water: none
- Density: 1.77
- Auto-ignition: 268°C (progressive heating)
- Detonation velocity: 7 700 – 7 900 m/s
- Sensitivity to friction: 314 N (HMX: 150 N)
- Impact testing (30 kg drop-hammer):
 - no propagation height: 1.25 m (HMX: 1 m)
 - no reaction height: 0.50 m (HMX: 1 m)
- Transport classification: 1.1D

USES

Used in the ordnance and pyrotechnic industries in order to replace lead styphnate, DNBF acts as a raw material for the preparation of potassium and barium salts, utilized in primary explosive compositions. Mainly applications are airbag initiators, sealing charges...

SPECIFICATIONS

EURENCO's specifications are the following:

- Aspect:
 - Class 1 and 2: yellow powder
 - Class 3: yellow to red powder
- Purity:
 - Class 1: $\geq 99.0\%$
 - Class 2: $\geq 97\%$
 - Class 3: $> 95\%$
- Main impurity: 5,6-dinitrobenzofuroxan ($\leq 5\%$)
- % nitrogen: for information
- Moisture level: $\geq 15\%$