



# H M X AND COMPOSITIONS



## High Performance Explosive

Leading worldwide specialist in the field of high explosives, EURENCO offers its customers a complete range of high explosives and compositions, thanks to high-tech manufacturing capabilities. EURENCO produces highly purified HMX, resulting in a high thermal stability and a significant reduction of shock sensitivity. It is designed to meet the tightest requirements, more particularly those of the Oil & Gas industry. Used in a wide range of compositions, EURENCO-produced HMX represents the best choice for high quality and performance.



### Application and user's advantages

Available in all standard grain sizes, HMX is used in a variety of military and civil applications:

- Melt-cast, pressed and cast PBX charges for munitions
- Boosters
- Oil well perforating charges
- Shock tubes
- Detonating and non-detonating cords

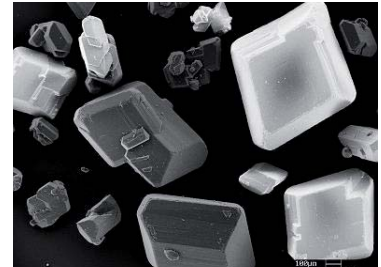


# H M X

## High Performance Explosive

### Product Description

- Chemical names : Octogen, HMX, Cyclotetramethylenetetranitramine, Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
- CAS number: 2691-41-0
- Chemical formula:  $C_4H_8N_8O_8$
- CE Marking
- HMX qualities matching the MIL-DTL-45444C and STANAG 4284 specifications:
  - Standard particle sizes: class 1 to class 5,
  - Specific grades available on request, more particularly air-milled micronic material.
- HMX-based compositions available according to NATO standard or customer-tailored specifications:
  - Melt-cast compositions (Octol 70/30, Octol 75/25,...)
  - Pressed composition (HMX Wax, PBXN-3, PBXN-5, PBXN-9,...)



### Product Characteristics

- Heat of combustion:  $-2820 \pm 2.8$  kJ/mol solid phase
- Deflagration point: 287 °C
- Detonation velocity, confined: 9 100 m/s (1.9 g/cm<sup>3</sup>)
- Volume of detonation gases: 927 l/kg
- Impact sensitivity: 7.5 J
- Friction sensitivity: 120 N
- Critical diameter of steel sleeve test: 8 mm
- Water gap sensitivity is also improved from 30 to 40 kBar when using EURENCO's HMX in PBXN-110.



12 quai Henri IV - 75004 - Paris - France  
Tel.: +33 (0) 1 49 96 74 00 - Fax: +33 (0) 1 49 96 74 03  
E-mail: [eca.bu@eurenco.com](mailto:eca.bu@eurenco.com) - [www.eurenco.com](http://www.eurenco.com)