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
HMX
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: C₄H₈N₈O₈
- 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 ± 2.8 kJ/mol solid phase
- Deflagration point: 287 °C
- Detonation velocity, confined: 9 100 m/s (1.9 g/cm³)
- 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.