



Safety • Quality • Reliability

# Technical Data Sheet

# HMX<sup>®</sup>



## HMX AND ITS COMPOUNDS High Performance Explosives

Solar provides a complete range of High Performance Explosives and its compositions from its "State-of-The-Art" manufacturing plants.

Solar has facilities to produce HMX and HMX Compounds with high purity and fineness.

Solar also produces HMX compounds coated with high melting waxes and synthetic polymers such as Viton for pressing applications providing an enhanced phlegmatization effect resulting in less sensitivity.

The modern production facility has well defined and documented Quality Management System. Laboratory having latest comprehensive testing facilities with NABL accreditation ISO/IEC-17025-2017.

### Application

HMX Compositions has uses in variety of Military and Civil Applications

- Melt-casted and pressed Military Charges
- Cast Cured charges for Insensitive Munitions (IM)
- Pyrotechnics (cap-relay, cutting cords, detonators)
- Initiation and main charges for oil well perforating charges.

### Product Description

Chemical Names : Octogen, HMX, Cyclotetramethylene Tetranitramine, Tetrahexamine, Tetranitramine, Octahydro -1,3,5,7 - Tetranitro -1,3,5,7 - Tetrazocine.

CAS No. : 2691- 41-0

Chemical Formula : C<sub>4</sub> H<sub>8</sub> N<sub>8</sub> O<sub>8</sub>

Confirm to MIL - DTL- 45444C

- Grade : A & B, Class : 1 to 6

HMX based compositions

- Melt cast compositions - OCTOL
- Pressed compositions, such as SOMA, SOKFOL, PBXN-5 etc.
- Premix for Cast Cure charges for Insensitive Munitions

### Product Characteristics

Appearance	White
*Purity %	Grade A : 93.0 min. Grade B : 98.0 min.
Melting Point °C by DSC	277.0 min.
Detonation Velocity m/s	9100
Acetone Insoluble material %	0.05 max.
Particle Size	As per MIL-DTL-45444C, Class 1 to 6

\*On request High Purity HMX can be supplied

### Disclaimer

Use of these products by anyone who lacks adequate training, experience & supervision may kill or injure. It is expressly understood that any technical advice furnished by SILL with reference to the use of its Products is given gratis & SILL assumes no obligation or liability for the advice given or results obtained, & all such advice being given is accepted at Customer's risk.

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Any dispute arising out of above information shall be dealt in accordance with the laws of Republic of India and subject to jurisdiction of Courts at Nagpur, India.

\*Images are just for reference and can be changed without any intimations.

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