CYCLOTRIMETHYLENE TRINITRAMINE

RDX

TECHNICAL DATASHEET

Our state-of-the-art manufacturing processes ensure high detonation velocity, controlled particle size distribution, uniform morphology, and consistent energetic performance, making our RDX the preferred choice for applications where precision, reliability, and power are mission-critical.



TECHNICAL DETAILS

SPECIFICATION	VALUE
Colour	White or brown crystalline powder
Odour	Odourless
Concentration	>95%
Chemical Formula	$C_3H_6N_6O_6$
Melting Point	200 °C
Molecular Weight	222.12 g/mol
Flash Point	229 °C
Detonation Velocity	8750 m/s
Danger of Explosion	Danger of explosion due to impact, friction, fire and other sources of ignition. The heat can cause an explosion.

ADVANTAGES

- High explosive energy output.
- Consistent detonation velocity.
- Uniform particle morphology.
- Excellent compatibility with standard binders and additives.
- Suitable for both pressed and cast-cured formulations.

COMPLIANCE

Manufactured in compliance with applicable explosive safety regulations and quality assurance systems. Documentation and certification can be provided as per defence tender, DGQA, or export control requirements.

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HANDLING AND SAFETY

- Personnel shall use approved personal protective equipment (PPE) during handling and processing.
- Adequate precautions shall be taken to prevent electrostatic discharge.
- The product shall be kept away from open flames, hot surfaces, sparks, and all ignition sources.
- Containers shall be handled carefully to avoid physical damage and contamination.
- Contact with incompatible materials shall be strictly avoided.

PACKAGING

RDX is packed and supplied in 8 kg corrugated boxes with 2 anti-static liners inside.

ADVANCED STORAGE REQUIREMENTS

- Store in original, sealed containers only.
- Storage shall be in a dry, well-ventilated magazine at stable ambient temperatures.
- Where specified, the product shall be maintained in wetted condition to ensure stability and fire resistance.
- Protect from direct sunlight and environmental exposure.
- Storage facilities shall be isolated from drains, sewers, and incompatible chemicals, particularly strong acids and alkalies.

PRODUCT DISCLAIMER

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Explosive Products must only be handled, transported, and used by personnel who are properly trained, certified, and authorized to work with such materials. Users are responsible for assessing site-specific conditions, verifying regulatory requirements, and ensuring that all procedures align with applicable safety standards and legal obligations.

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