



GRADE A RDX

The operational insensitive energetic solution

CHARACTERISTICS

Grade A RDX exhibits the following nominal performance characteristics:

Product	RDX (Woolwich nitric acid process) Type 1
Current specification	DEF (AUST) 5382B
Thales Australia product	Grade A (re-crystallised); Class 1 (particle size range)
Source specification	DEF STAN 07-23(UK) MIL-R-398(US) Type 1 NATO STANAG 4022
Pack size	15 kg Pails

Grade A RDX has been developed by Thales Australia to conform to the stringent design parameters of the Australian Defence Force (ADF). Grade A RDX is manufactured at Thales Australia's Mulwala facility via the Woolwich nitric acid process (Type 1) and is currently in service with the ADF and international defence forces.

Grade A RDX essentially satisfies all the chemical, physical and operational requirements of the relevant source specifications.



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THE OPERATIONAL INSENSITIVE ENERGETIC SOLUTION

Operational insensitive

Testing by the Defence and Science Technology Organisation (DSTO), an Australian Defence department, has confirmed that Grade A RDX has an equivalent insensitivity to that of SNPE "I-RDX" in PBX formulations. Substitution of Grade A RDX in PBX formulations considerably reduces the shock sensitivity of these compositions without adversely affecting performance, chemical or physical characteristics.

Research to date has confirmed that Grade A RDX used in PBXN-109 formulations has a marked reduction in shock sensitivity compared to the current formulation produced in Australia for the Penguin anti-ship missile using imported standard insensitive material.

Enhanced personnel and platform survivability

The benefits of using insensitive explosives to enhance personnel and platform survivability have been widely reported. As the worldwide requirements for insensitive explosives increases, Thales Australia's insensitive Grade A RDX is available to meet this growing demand.

Function

Grade A RDX is optimised for use by the ADF.

Packaging

Thales Australia Grade A RDX can be shipped in standard military packages conforming to the UN recommendations for packaging of dangerous goods.

SPECIAL FEATURES

Thales Australia Grade A RDX provides the technological edge to the insensitive energetic material requirements of our customers.