



## Technical Data Sheet NONA

### 1.0 **GENERAL**

#### 1.1 **Product description**

The product consists of 2,2',2'',4,4',4'',6,6',6'' Nonanitro-m-Terphenyl. It is used as a high temperature stable explosive.

#### 1.2 **Manufacturing, lot size**

As dictated by customer order size and Detotec lot control/manufacturing practices.

#### 1.3 **Quality System**

The supplier shall possess a defined and documented quality system, complying with the requirements of ISO 9001:2015. The quality system shall be understood, implemented, and maintained at all levels in the supplier's organization.

### 2.0 **APPLICABLE DOCUMENTS**

#### 2.1 **Test Methods**

2.1.1 LTM-001 Differential Scanning Calorimetry (DSC) Analysis of PYX and NONA

2.1.2 LTM-003 Particle Size Analysis via PSS Accusizer (SPOS Method)

2.1.3 LTM-004 PYX and NONA HPLC Analysis Method

2.1.4 LTM-005 Bulk Density of Explosive Powders Test Method

2.1.5 LTM-006 Moisture and/or Volatiles of Explosive Powders Test Method



### **3.0**      **REQUIREMENTS**

#### **3.1**      **Chemical and physical requirements**

3.1.1	Appearance	Pale Yellow Crystalline Powder
3.1.2	HPLC Assay	Min. 99 %
3.1.3	DSC Decomposition Onset	Min. 370°C
3.1.4	DSC Decomposition Exotherm Peak	Min. 380°C
3.1.5	Bulk Density	0.4 to 0.8 g/cc
3.1.6	Moisture/Volatiles	Max. 0.2 %
3.1.7	Average Particle Size (via PSS/SPOS)	40 to 80 microns

### **4.0**      **QUALITY ASSURANCE**

#### **4.1**      **Inspection**

Inspection shall be performed to such extent that fulfilment of the physical and chemical requirements can be verified.

#### **4.2**      **Inspection and test records**

The supplier shall establish and maintain records which give evidence that the product has passed inspection and/or tests with above defined test criteria.

### **5.0**      **QUALITY DOCUMENTS/CERTIFICATE**

#### **5.1**      **Certificate**

The supplier shall hand over to the purchaser a Certificate of Conformity, containing the actual physical and chemical properties of the product.