



Technical Data Sheet PYX

1.0 **GENERAL**

1.1 **Product description**

The product consists of 2,6-Bis(picrylamino)-3,5-dinitropyridine. 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 Powder Comprised of Cubic Particles
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	0.5 to 0.8 g/cc
3.1.6	Moisture/Volatiles	Max. 0.2 %
3.1.7	Average Particle Size (via PSS/SPOS)	95 to 160 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.