

NITROCELLULOSE WETTED WITH WATER (≥25%)

Raw material: Cotton cellulose
Characteristics: White homogeneous fibrous material
Molecular formula: C₂₄H₃₆N₈O₃₈
EINECS: 933-629-2
CAS Number: 9004-70-0
UN 2555 – Class 4.1 (Flammable Solid)

Index	Standard	Measured Value
Acetone insoluble, %, not more	0.4	0.28
Ash, %, not more	0.4	0.13
Ether/alcohol solubility, %	28 - 42	38.3
Fineness, mL	70 - 110	96
Moisture, %	30 – 35	34.0
Bergmen junk stability test, ml NO/g, not more	2.5	2.45
Nitrogen, %	13.10 – 13.20	13.13
Viscosity, mPa·s (cP, OE)	9 - 15	10.1

NITROGUANIDINE WETTED WITH WATER (≥20%)

Raw material: Guanidine nitrate
Characteristics: Colourless crystalline solids
Molecular formula: CH₄N₄O₂
EINECS: 209-143-5
CAS Number: 556-88-7
UN 1336 – Class 4.1 (Flammable Solid)

Index	Standard	Measured Value
Purity, %, not less	99	99.1
Ash, %, not more	0.3	0.02
Acidity, %, not more	0.06	0.01
Average particle size, µm	3.4 - 6.0	3.9
Moisture, %	20 – 25	24
Water insoluble, %, not more	0.2	0.01
Sulphate, %, not more	0.20	0.06

RDX (Hexogen, Cyclonite, Cyclotrimethylenetrinitramine) WETTED WITH WATER (≥15%)

Characteristics: White crystal, without mechanical impurities.

Molecular formula: C₃H₆N₆O₆

EINECS: 204-500-1

CAS Number: 121-82-4

UN 0072, Class 1.1 Group D (Explosives)

Characteristics	
Crystal Density, g/cm ³ :	1.816
Detonation Velocity, m/s:	8750
Oxygen Balance, % (m/m):	-21.6
Heat of Explosion, kJ/kg:	5723
Impact Sensitivity, N/m:	7.5
Friction Sensitivity, N:	120

Index	Type I	Type II
Melting point, °C, min	200	190
Insoluble in acetone, % (m/m), max	0.05	0.05
Content of Ash, % (m/m), max	0.03	0.03
Acidity as HNO ₃ , % (m/m), max	0.05	-
Acidity as CH ₃ COOH, % (m/m), max	-	0.02
Content of HMX (β modification), % (m/m)	0.0 - 5.0	4.0 - 17.0