



RDX Explosives



RDX is extremely strong and, when dry, it is very sensitive to impact, friction and static electricity. RDX has high chemical durability and thermal resistance. Due to high volatility pure RDX is used for detonators, amplifiers and transporters and, as a composite with TNT and wax, for casting and pressing of warheads, artillery munitions and missile assets. RDX is phlegmatized by various phlegmatizer types to increase resistance to impact and friction.

PRODUCT DESCRITPION :

- Chemical name: Hexahydro-1,3,5-trinitro-1,3,5-triazine
- Synonyms: Hexogen, RDX, Cyclonite, Cyclotrimethylenetrinitramine
- Chemical formula: C3H6N606
- CAS number: 121-82-4
- UN PSN: UN 0072 RDX, WETTED 1.ID



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As a military explosive, RDX can be used alone as a base charge for detonators or mixed with another explosive such as TNT to form cyclotols, which produce a bursting charge for aerial bombs, mines, and torpedoes.

Common military uses of RDX have been as an ingredient in plastic bonded explosives. Civilian applications of RDX include use in pyrotechnics (cap-relay, cutting cords, detonators).

White crystal, without mechanical impurities

190

0,05 0,03

0,02

4,0-17,0

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CHARACTERISTICS :

•	Crystal Density, g/cm³:	1.816
•	Detonation Velocity, m/s:	8.750
•	Oxygen Balance, % (m/m):	-21.6
•	Heat of Explosion, kJ/kg:	5.723
•	Impact Sensitivity, N/m:	7,5
•	Friction Sensitivity, N:	120

TECHNICAL SPECIFICATION :

Color and appearance

- Melting point, °C, min
- Insoluble in acetone, % (m/m), max
- Content of Ash, % (m/m), max
- Acidity as HN03, %(m/m), max
- Acidity as CH3COOH, % (m/m), max
- Content of HMX (3 modification), %(m/m)
- Granulation

COMPOSITIONS BASED ON RDX :

Product	Ingredients	Content, % (m/m)
 FH-5 (A-IX-1; rEKQO/1-5,5) FH-2,5 RDX/Wax/Graphite (OWC) RDX/Wax/Graphite (OWC) 	RDX/Wax RDX/Wax RDX/Wax/Graphite	94,5 / 5,5 97,5 / 2,5 94,5/4,5/1,0
 *for oil well perforating charges Composition B Composition A-3 A-4 Composition A-5 	RDX/Wax/Graphite RDX /TNT /Wax RDX/Wax RDX/Stearic Acid	98,5/1,0/0,5 59,5/39,5/ 1,0 91/9 97/3 98,5/1,5

200

0,05

0,03

0,05

0,0-5,0

Large range

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Should you have any further enquires, please do not hesitate to contact us at **office@yugoimport.com** All the data given in the brochure are for information purposes only. The final configuration and/or technical specification are defined for each contract individually.