

Ammonium Nitrate Explosives(NH4NO3)

tend to be very difficult to detonate(need another high explosive or commercial casting charge or strong industrial or military blasting cap), a #8 cap and 12oz of petn/rdx will detonate it, it melts at 180C, it holds 378cal/g of energy and has a detonating velocity of 3460m/s. A one KG blast can be heard for 7km upwind. The explosive must be confined or most of it will scatter. The ammonium nitrate must be dried in the oven and as a very fine powder before use. Because it has excess oxygen it mixes well with other high explosives (nitroglycerine,TNT)

ANFO(ammonium nitrate fuel oil): .5kg+ can be detonated unconfined with 20g/3oz. of TNT. Place 94% powdered (easier to detonate) ammonium nitrate in a bag and sprinkle 6% (use 2-3% for maximum sensitivity) diesel or kerosene or half motor oil half gasoline mix onto it (to make it more sensitive and prevent AN from absorbing water) and you can mix it in plastic bag or by hand and let sit for one hour. You also can add some sugar to use up excess O2.

Ammonal: By adding 15-18% aluminum powder to ANFO the power(and sensitivity is increased.

French Ammonal: Can be pressed into containers and is a mix of 86% AN + 6% Stearic Acid + 8% Al powder.

ammonium powder: To 8.5subw AN add 1.5subw wood charcoal and leave explosive lightly packed for easier detonation.

FORMULAS FOR AMMONIUM NITRATE COMPOUNDS

1)	AMMONIUM NITRATE	60	2)	AMMONIUM NITRATE	34
	POTASSIUM NITRATE	29.5		POTASSIUM NITRATE	34
	SULFUR FLOUR	2.5		T.N.T.	17
	CHARCOAL POWDER	4		AMMONIUM CHLORIDE	15
	WOODMEAL	4			
3)	AMMONIUM NITRATE	59	4)	AMMONIUM NITRATE	59
	WOODMEAL	10		AMMONIUM SULFATE	9
	NITROGLYCERN	10		NITROGLYCERN	6
	SODIUM CHLORATE	20		BARIUM SULFATE	7
	MAGNESIUM CARBONATE	1		DEXTRIN	8
5)	AMMONIUM NITRATE	88	6)	AMMONIUM NITRATE	75
	CHARCOAL POWDER	12		ALUMINUM POWDER	25
7)	AMMONIUM NITRATE	94	8)	AMMONIUM NITRATE	64
	POTASSIUM NITRATE	2		T.N.T.	15
	CHARCOAL POWDER	4		SODIUM CHLORIDE	21
9)	AMMONIUM NITRATE	60	10)	AMMONIUM NITRATE	35
	WOODMEAL	10		POTASSIUM NITRATE	33
	NITROGLYCERIN	10		T.N.T.	12
	SODIUM CHLORIDE	20		AMMONIUM CHLORIDE	20
11)	AMMONIUM NITRATE	87	12)	AMMONIUM NITRATE	92.5
	CHARCOAL POWDER	13		POTASSIUM BICHROMATE	2
				NAPHTHALENE	5.5