

Laboratory	Senior Quality Assurance Establishment (ARMTS), Ordnance Factory, Chandrapur, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	1 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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INITIATORY DIVISION

I. EXPLOSIVES & PYROTECHNICS

1.	Service Lead Azide	Moisture content	JSS 1376 – 09 : 2007, Rev No. 2	0.001 % to 0.06 % by mass
		Lead Azide content		94.0 % to 96.0 % by mass
		Bulk density		1.70 g/cm ³ to 2.2 g/cm ³
2.	Basic Lead Azide	Moisture content	IND / ME 916 (Prov) Issue Date 25.07.2000	0.001 % to 0.15 % by mass
		Lead Azide content		65.0 % to 76.0 % by mass
		Bulk density		1.5 g/cm ³ to 1.7 g/cm ³
3.	Lead styphnate ME-300	Moisture content	JSS 1375 – 06 : 2006, Rev No.1	0.001 % to 0.06 % by mass
		Lead Styphnate content		96.0 % to 98.0 % by mass
		Lead Content		43.4 to 44.6 % by mass
		Bulk density		1.3 to 1.5 g/cm ³
4.	Lead styphnate RD1303	Moisture content	JSS 1375 – 06 : 2006, Rev No.1	0.001 % to 0.2 % by mass
		Lead Styphnate content		97.5 % to 98.5 % by mass
		Lead Content		43.5 % to 44.6 % by mass
		Bulk density		0.7 g/cm ³ to 1.37 g/cm ³

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	2 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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5.	Mercury Fulminate	Moisture content	JSS 1376 – 07-2009, Rev No.2	0.001 % to 0.06 % by mass
		Mercury Fulminate content		98.0 % to 99.0 % by mass
		pH of water extract		5.0 % to 8.0 % by mass
6.	Tetrazene	Moisture content	JSS – 1376 – 08-2007, Rev No.2	0.001 % to 0.2 % by mass
		Settling test		1.0 to 25.0 volume in ml
		pH of water extract		5.0 to 8.0
7.	Lead 2:4 Dinitroresorcinol RD 1337	Moisture content	IND/ME/752, Issue Date 19.03.2001	0.001 % to 0.8 %
		Purity		46.5 % to 50.5 % by mass
		Bulk Density		0.7 g/cm ³ to 0.9 g/cm ³
8.	ASA composition	Moisture content	IND / ME / 349 (d) Issue Date 05.09.1945	0.001 % to 0.06 % by mass
		Service Lead Azide		62.5 % to 67.5 % by mass
		Al Powder		1.5 % to 3.5 % by mass
		Lead Styphnate		30.0 % to 35.0 % by mass

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	3 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>INITIATORY DIVISION</u>				
9.	Blasa Mix	Moisture content	IND/ME/953 (Prov) Issue Date 17.07.1996	0.001 % to 0.06 % by mass
		Basic Lead Azide		76.0 % to 84.0 % by mass
		Al Powder		0.75 % to 1.25 % by mass
		Lead Styphnate ME300		16.0 % to 22.0 % by mass
10.	L-Mix	Moisture content	IND/ME/1019, Issue Date 30.09.2006	0.001 % to 1.0 % by mass
		Barium Nitrate		42.0 % to 48.0 % by mass
		Tetrazene		4.0 % to 6.0 % by mass
		2:4 LDNR		47.0 % to 53.0 % by mass
11.	RGM –Mix	Moisture content	IND / ME /347 (a) Issue Date 31.01.1946 DC No. 3754-ME Date 12.12.2002	0.001 % to 0.06 % by mass
		Mercury Fulminate		47.0 % to 53.0 % by mass
		Potassium Chlorate		23.5 % to 26.5 % by mass
		Antimony Sulphide+ Shellac		23.5 % to 26.5 % by mass

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	4 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>INITIATORY DIVISION</u>				
12.	A1- Mix	Moisture content	IND / ME /348 (a) Issue Date 24.09.1998	0.001 % to 0.06 % by mass
		Mercury Fulminate		35.0 % to 40.0 % by mass
		Potassium Chlorate		35.0 % to 40.0 % by mass
		Antimony Sulphide		23.0 % to 27.0 % by mass
13.	Cap Percussion Composition	Moisture content	IND / ME /348 (a) Issue Date 24.09.1998	0.001 % to 0.06 % by mass
		Mercury Fulminate		23.0 % to 27.0 % by mass
		Potassium Chlorate		35.0 % to 40.0 % by mass
		Antimony Sulphide+ Shellac		35.0 % to 40.0 % by mass
14.	NOL – 130	Moisture content	IND / ME 879 (Prov) Issue Date 24.09.1998	0.001 % to 0.1 % by mass
		Basic Lead Azide		17.5 % to 22.5 % by mass
		Tetrazene		4.0 % to 5.6 % by mass
		Sb2S3		13.0 % to 16.5 % by mass

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	5 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>INITIATORY DIVISION</u>				
	NOL – 130	Barium Nitrate		17.5 % to 22.5 % by mass
		LS ME 300		37.5 % to 42.5 % by mass
15.	VH2-MIX	Moisture	IND / ME /874 (Prov) Issue Date 24.09.1998	0.001 % to 0.06 % by mass
		Barium Nitrate		35.5 % to 42.5 % by mass
		Tetrazene		1.5 % to 2.5 % by mass
		Lead Peroxide		4.3 % to 5.7 % by mass
		Antimony Sulphide & Calsium Silicide		14.3 % to 17.7 % by mass
		Lead Styphnate RD 1303		34.5 % to 41.5 % by mass
16.	Q.F. Composition	Moisture	IND / ME / 350 (b) Issue Date 14.10.1985	0.001 % to 0.06 % by mass
		Lead Thiocyanate		4.0 % to 5.0 % by mass
		Potassium Chlorate		32.0 % to 38.0 % by mass
		MGP (Mealed Gun Powder)		2.0 % to 3.0 % by mass
		Free Sulphur		2.7 % to 3.9 % by mass
		Ground Glass		2.2 % to 3.0 % by mass
		Antimony Sulphide + Ground Glass		48.7 % to 54.9 % by mass

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	6 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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HE-NE DIVISION

I. EXPLOSIVES & PYROTECHNICS

1. AY. Composition	TNT (Trinitrotoluene)		GOST Drg. No.2-0135 – 35 / WI/INSP - 010/QCL/16	5.0 % to 14.0 % by mass
	Paraffin Wax		Issue Date 05.02.1996	1.0 % to 4.0 % by mass
	Barium Nitrate			30.0 % to 45.0 % by mass
	Aluminium powder			25.5 % to 50.0 % by mass
2. ME 412 Composition	Barium Chromate		IND/ME/820 (Prov) Issue Date 22.09.1997	60.0 % to 80.0 % by mass
	[Antimony Sulphide			15.0 % to 25.0 % by mass
	Potassium Perchlorate			5.0 % to 10.0 % by mass
3. CU-I Composition	N. C. Content			0.1 % to 2.0 % by mass
	Red Lead		IND/ME/950 (Prov) Issue Date 13.12.2008	60.0 % to 80.0 % by mass
	Zirconium Powder			20.0 % to 30.0 % by mass
4. SR 524 Composition	NC ½ Sec			0.5 % to 3.0 % by mass
	Magnesium Powder		IND/ME/946 (Prov) Issue Date 30.04.1981	50.0 % to 65.0 % by mass
	Sodium Nitrate			30.0 % to 45.0 % by mass
	Boiled Linseed Oil			2.0 % to 6.0 % by mass

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Discipline	Chemical Testing	Issue Date	30.01.2016
Certificate Number	T-1718	Valid Until	29.01.2018
Last Amended on	29.02.2016	Page	7 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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5.	SR 399 Composition	Magnesium Powder	IND/ME/141 (d) Issue Date 21.02.1995	5.0 % to 15.0 % by mass
		Barium Peroxide		70.0 % to 90.0 % by mass
		Shellac		0.1 % to 5.0 % by mass
6.	SR 372AB Composition	Magnesium Powder +Magnesium Carbonate	IND/ME/512 (d) Issue Date 12.03.1994	30.0 % to 50.0 % by mass
		Bees Wax		1.0 % to 10.0 % by mass
		Strontium Nitrate		30.0 % to 50.0 % by mass
		Shellac		1.0 % to 10.0 % by mass
		Chlorinated Rubber		1.0 % to 10.0 % by mass
7.	Gun Powder G-7	Moisture Content	JSS-1376-05:2005	0.01 % to 1.40 % by mass
		Sieving :- Retention on 6.3 mm IS sieve		0.00 to 10.0 % by mass
		2.0 mm IS sieve		90.0 to 100 % by mass
8.	Gun Powder G-12	Moisture Content	JSS-1376-05:2005	0.01 % to 1.40 % by mass
		Sieving :- Retention on 2.0 mm IS sieve		0.0 to 10.0 % by mass
		1.0 mm IS sieve		90.0 % to 100 % by mass
9.	Gun Powder G-20	Moisture Content	JSS-1376-05:2005	0.01 % to 1.40 % by mass
		Sieving :- Retention on 1.0 mm IS sieve		0.00 to 10.0 % by mass
		600 micron IS sieve		70.0 % to 100 % by mass

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Discipline Chemical Testing **Issue Date** 30.01.2016

Certificate Number T-1718 **Valid Until** 29.01.2018

Last Amended on 29.02.2016 **Page** 8 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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10.	Gun Powder G-40	Moisture Content	JSS-1376-05:2005	0.01 % to 1.40 % by mass
		Sieving :- Retention on 500 micron IS sieve		0.00 to 10.0 % by mass
		300 micron IS sieve		90.0 % to 100 % by mass
11.	Gun Powder Mealed	Moisture Content	JSS-1376-05:2005	0.01 % to 1.40 % by mass
		Sieving :- Retention on 106 micron IS sieve		0.00 to 10.0 % by mass
		63 micron IS sieve		90.0 % to 30.0 % by mass

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