

**Laboratory**                      **QC (MAT) Laboratory Ordnance Factory, Varangaon, Dist Jalgaon, Maharashtra**

**Accreditation Standard**    **ISO/IEC 17025: 2005**

**Discipline**                      **Chemical Testing**                      **Issue Date**    **03.02.2015**

**Certificate Number**        **T-3275**                                      **Valid Until**    **02.02.2017**

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I. EXPLOSIVES &amp; PYROTECHNICS</b>				
1.	<b>Initiatory Composition No. FA-956 for Primers</b>	Moisture Content Percent by mass	IND/ME/960: 2014	Min. 8.0 Max. 12.0
		Barium Nitrate	IND/ME/960: 2014	27.0 to 37.0
		Antimony Sulphide	IND/ME/960: 2014	13.0 to 17.0
		Aluminium Powder	IND/ME/960: 2014	6.0 to 8.0
		Lead Styphanate	IND/ME/960: 2014	32.0 to 42.0
		Tetrazene	IND/ME/960: 2014	3.0 to 5.0
		P.E.T.N.	IND/ME/960: 2014	4.0 to 6.0
2.	<b>Igniter Composition ME 508 (for 5.56 mm), % Ingredients</b>	Phenolic Resin	IND/ME/1020 (PROV): 2014	8.5 to 11.50
		Strontium Peroxide	IND/ME/1020 (PROV): 2014	88.50 to 91.50
3.	<b>Sub Igniter Composition ME 509 (for 5.56 mm), % Ingredients</b>	408 B Igniter	IND/ME/1020 (PROV): 2014	Phenolic Resinate + SrO <sub>2</sub> ( <sup>93±3</sup> )
		Magnesium Powder	IND/ME/1020 (PROV): 2014	4.0 to 10.0
4.	<b>ME-407 Tracer (for 7.62mm) % Ingredients</b>	Strontium Nitrate	IND/ME/749 (PROV): 2002	53.5 to 56.5
		Magnesium	IND/ME/749 (PROV): 2002	26.8 to 29.2
		P.V.C.	IND/ME/749 (PROV): 2002	15.8 to 18.2
5.	<b>ME-408 Igniter (for 7.62 mm), % Ingredients</b>	Calcium Resinate	IND/ME/750 (PROV): 2002	9.0 to 11.0
		Strontium Peroxide	IND/ME/750 (PROV): 2002	89.9 to 91.0

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6.	<b>ME-409 Sub Igniter (for 7.62 mm), % Ingredients</b>	Calcium Resinate	IND/ME/751 (PROV): 2002	7.5 to 9.5
		Strontium Peroxide	IND/ME/751 (PROV): 2002	74.5 to 78.5
		Calcium Resinate + SrO <sub>2</sub>	IND/ME/751 (PROV): 2002	84.0 to 86.0
		Magnesium	IND/ME/751 (PROV): 2002	14.0 to 16.0
7.	<b>Sulphuric Acid</b>	Determination of total acidity	IS 266: 1993 (RA 2003)	Min. 98 % by mass
		Determination of Residue on Ignition	IS 266: 1993 (RA 2003)	Max. 0.2 % by mass
8.	<b>Sodium Nitrite</b>	Determination of Sodium Nitrate Content	JSS-6810-104: 2005	Min. 98 % by mass
		Matter insoluble in water	JSS-6810-104: 2005	Max. 0.10 % by mass
9.	<b>Lead Nitrate</b>	Lead Nitrate content	JSS-6810-80: 2003	Min. 98 % by mass
		pH of water extract	JSS-6810-80: 2003	Max. 4.8
10.	<b>Barium Nitrate Grade-I</b>	Barium Nitrate content	JSS-6810-59: 2001	Min. 99 % by mass
11.	<b>Soda Ash</b>	Total Alkalinity	IS 251: 1998 (RA 2010)	Min. 98.5 % by mass
		Matter insoluble in water	IS 251: 1998 (RA 2010)	Max. 0.15 % by mass

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