

<b>Laboratory</b>	<b>SQAE (ME), Aruvankadu Testing Laboratory, Aruvankadu, The Nilgiris, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Mechanical Testing</b>	<b>Issue Date</b>	<b>18.09.2016</b>
<b>Certificate Number</b>	<b>T-0787</b>	<b>Valid Until</b>	<b>17.09.2018</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. TEXTILE MATERIALS</b>				
<b>1.</b>	<b>Cambric Cotton</b>	Ends/cm	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1963: 2004 (RA 2014) Clause. 5.2	10 to 100
		Picks / cm	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1963: 2004 (RA 2014) Clause. 5.2	10 to 100
		Mass	IS 5088: 1982 (Rev. 1) Amd. 2 (RA 2007) IS 1964: 2001 (RA 2011)	10 g/m <sup>2</sup> to 100 g/m <sup>2</sup>
		Length	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1954: 1990 (RA 2012) (Rev. 2) Clause. 7	1 m to 3 m
		Width	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1954: 1990 (RA 2012) (Rev. 2) Clause. 8	80 cm to 150 cm
<b>2.</b>	<b>Calico (Variety No. 3)</b>	Ends/cm	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2	10 to 100
		Picks/cm	IS 1963: 2004 (RA 2014) Clause. 5, 2	10 to 100
		Mass	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1964 (RA 2011): 2001 (Rev. 2)	10 g/m <sup>2</sup> to 175 g/m <sup>2</sup>

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	<b>Calico (Variety No. 3)</b>	Length	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1954: 1990 (RA 2012) (Rev. 2) Clause. 7	1 m to 3 m
		Width	IS 5088: 1982 (RA 2007) (Rev. 1) Amd. 2 IS 1954: 1990 (RA 2012) (Rev. 2) Clause. 8	80 cm to 150 cm
<b>3.</b>	<b>Acrylic Rayon Cloth</b>	Mass in g/m <sup>2</sup>	IND/ME/973(a) Prov& JSG 0114: 2015 (Rev. 1) Method. 1	10 g/m <sup>2</sup> to 310 g/m <sup>2</sup>
<b>II. PAPER AND PAPER PRODUCTS</b>				
<b>1.</b>	<b>Paper Kraft Ammunition</b>	Substance, g/m <sup>2</sup>	JSS 8135-017: 2002 (RA 2010) & IS 1060 (Part 1): 1966 (RA 2014) Rev. 1 Clause. 6	1 g/m <sup>2</sup> to 200 g/m <sup>2</sup>
<b>2.</b>	<b>Paper Wrapping Waxed Kraft Ammunition</b>	Substance, g/m <sup>2</sup>	JSS 8135- 05: 2013 (Rev. 4) IS 1060 (Part 1): 1966 (RA 2014) (Rev. 1) Clause. 6	1 g/m <sup>2</sup> to 200 g/m <sup>2</sup>
		Water Proofness	JSS 8135-05: 2013 (Rev. 4) Appendix A	Qualitative
<b>III. MECHANICAL PROPERTIES OF METALS</b>				
<b>1.</b>	<b>N-Type Of Propellant</b>	External Diameter	JSS 1376-13: 2014 (Rev. 1)& JSG 116: 1996 Group 607	1 mm to 20 mm

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	<b>N-Type Of Propellant</b>	Internal Diameter	JSS 1376-13: 2014 (Rev. 1)& JSG 116: 1996 Group 610	0.1 mm to 5 mm
		Annulus/ Web	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 610	0.1 mm to 5mm
		Mass /2540mm	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 615	0.1 g to 200 g
		Density	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 407	1.5 kg /dm <sup>3</sup> to 2.0 kg /dm <sup>3</sup>
<b>2.</b>	<b>Nq Type Of Propellant</b>	External Dia	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 607	1 mm to 20 mm
		Internal/hole Dia	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 610	0.1 mm to 5mm
		Annulus/ Web	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 610	0.1 mm to 5 mm

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	<b>Nq Type Of Propellant</b>	Mass /2540mm	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 615	0.2 g to 200 g
		Density	JSS 1376-13: 2014 (Rev. 1) JSG 116: 1996 Group 407	1.5 kg/dm <sup>3</sup> to 2.0 kg/dm <sup>3</sup>
<b>3.</b>	<b>Ap Type Of Propellant</b>	External Diameter	JSS 1376 -12: 2013 (Rev. 1) JSG 0116: 1996 Group 607	1 mm to 20 mm
		Annulus /Web	JSS 1376 -12: 2013 (Rev. 1) JSG 0116: 1996 Group 610	0.1 mm to 5 mm
		Mass per 2540mm	JSS 1376 -12: 2013 (Rev. 1) JSG 0116: 1996 Group 615	0.5 g to 100 g
		Internal Dia	JSS 1376 -12: 2013 (Rev. 1) JSG 0116: 1996 Group 610	0.1 mm to 5 mm
<b>4.</b>	<b>Propellant Db/M 202</b>	Length	JSS1376-12: 2013 Rev. 1 & JSG 0116: 1996 Group 606	600 mm to 800 mm

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	<b>Propellant Db/M 202</b>	Web	JSS1376-12: 2013 Rev. 1 & JSG 0116: 1996 Group 610	0.5 mm to 5 mm
		Ext Dia	JSS1376-12: 2013 Rev. 1 & JSG 0116: 1996 Group 607	1 mm to 20 mm
		Hole Dia	JSS1376-12: 2013 Rev. 1 & JSG 0116: 1996 Group 610	0.1 mm to 5 mm
		Specific Gravity (Relative Density)	JSS1376-12: 2013 Rev. 1 & JSG 0116: 1996 Group 403	1.0 g/cc to 2.0 g/cc

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