

<b>Laboratory</b>	<b>Aglow Quality Control Laboratory Pvt. Ltd., P 47 Kasba Industrial Estate, Phase-2, Kolkata, West Bengal</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>24.01.2015</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. ORES &amp; MINERALS</b>				
<b>1.</b>	<b>Iron Ores</b>	Silica Iron Phosphorus Aluminium Sulphur	IS 1493 (Part 1):1981 (RA 2001)	0.5 % to 10 % 0.5 % to 80 % 0.01 % to 1 % 0.5 % to 10 % 0.01 % to 1 %
<b>2.</b>	<b>Manganese Ores</b>	Silica Manganese Iron Titanium Oxide Calcium Oxide Magnesium Oxide Phosphorus Sulphur	IS 1473: 2004	0.1 % to 30 % 1 % to 90 % 1 % to 40 % 0.1 % to 5 % 0.1 % to 5 % 0.1 % to 5 % 0.005 % to 1.0 % 0.005 % to 1.0 %
<b>3.</b>	<b>Bauxite</b>	Loss on ignition Silica Alumina Ferric Oxide Titanium	IS 2000 (Part 1): 1985 (RA 2001) IS 2000 (Part 2): 1985 (RA 2001) IS 2000 (Part 3): 1985 (RA 2001) IS 2000 (Part 4): 1985(RA 2001) IS 2000 (Part 5): 1985(RA 2001)	0.1 % to 30 % 0.1 % to 40 % 1 % to 70 % 0.1 % to 30 % 1 % to 20 %
<b>4.</b>	<b>Quarzite &amp; High Silica Sand</b>	Loss on ignition Silica Iron	IS 1917 (Part 1): 1991 IS 1917 (Part 3): 1992 IS 1917(Part 5): 1992	0.1 % to 5 % 50 % to 99 % 0.1 % to 40 %
<b>5.</b>	<b>Lime Stone &amp; Dolomite</b>	Silica Calcium Oxide Magnesium Oxide Iron Alumina Loss on ignition	IS 1760 (Part 2): 1991 (RA 2001) IS 1760 (Part 3) 1992 (RA 2001) IS 1760 (Part 3) 1992 (RA 2001) IS 1760 (Part 3) 1992 (RA 2001) IS 1760 (Part 3) 1992 (RA 2001) IS 1760 (Part 1) 1991 (RA 2001)	0.1 % to 40 % 0.5 % to 56 % 0.5 % to 55 % 0.1 % to 5 % 0.1 % to 20 % 5 % to 50 %

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<b>6.</b>	<b>Chromite ore</b>	Chromic oxide Total Iron Alumina Silica Lime Magnesia	IS 4737: 1982 (RA 2006)	1 % to 70 % 1 % to 50 % 1 % to 20 % 1 % to 20 % 1 % to 20 % 1 % to 20 %

## **II. METALS AND ALLOYS**

<b>1.</b>	<b>Ferrochrome</b>	Silicon Chromium Phosphorus Sulphur Carbon	IS 13452 (Part 1&2): 1992 (RA 2002) IS 13452 (Part 5&6): 2003 IS 13452 (Part7): 2003 IS 13452 (Part 4): 1992 (RA 2002) IS 1559: 1961	0.1 % to 10 % 50 % to 75 % 0.005 % to 1 % 0.005 % to 1 % 0.05 % to 10 %
<b>2.</b>	<b>Ferromanganese</b>	Silicon  Manganese Phosphorus Carbon Sulphur	IS 1559 : 1961(RA 2002)	0.1 % to 10 %  1.1 25 % to 85 % 0.005 % to 1.0 % 0.05 % to 10 % 0.005 % to 1.0 %
<b>3.</b>	<b>Ferro Silicon</b>	Silicon  Carbon  Sulphur  Phosphorous  Aluminium Calcium	IS 1559: 13452 (Part 1): 1988 (RA 1999) IS 1559: 13452 (Part 2): 1982 (RA 2002) IS 1559: 13452 (Part 3): 1982 (RA 2002) IS 1559: 13452 (Part 4): 1982 (RA 2002) IS 1559: 13452 (Part 5): 2003 IS 1559: 13452 (Part 6): 1982 (RA 2002)	30 % to 80 %  0. 1 % to 0.5 %  0.005 % to 0.1 %  0.005 % to 0.1 %  0.05 % to 5 % 1 % to 2 %

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<b>4.</b>	<b>STEEL (Carbon Steel, Mild Steel, Spring steel &amp; Stainless Steel )</b>	Carbon	IS 228 (Part 1): 1987(RA 2002)	0.05 % to 2.5 %
		Manganese	IS 228 (Part 2): 1987 (RA 2002) (Low alloy)	0.1 % to 2.5 %
			IS 228 (Part 12): 2001(High alloy)	0.01 % to 5 %
		Silicon	IS 228 (Part 8): 1989 (RA 2004) IS 228 (Part 11): 1990	0.01 % to 2.5 %
		Sulphur	IS 228 (Part 9): 1989 (RA 2004)	0.005 % to 0.25 %
		Phosphorous	IS 228 (Part 3): 1987 (RA 2003)	0.02 % to 0.25 %
		Nickel	IS 228 (Part 5): 1987(RA 2002)	0.1 % to 15 %
		Chromium	IS 228 (Part 6); 1987 (RA 2002)	0.1 % to 20 %
<b>5.</b>	<b>Pig Iron/Cast Iron</b>	Manganese	IS 228 (Part 7): 1990 (RA 2001) IS 228 (Part 10): 1989	0.01 % to 10 %
		Carbon	IS 12308 ((Part 4): 1988 (RA 1999) IS 12308 (Part 11)	1.5 % to 4.5 %
		Manganese	IS 12308 (Part 10): 1991 (RA 2001)	0.1 % to 7 %
		Sulphur	IS 12308 (Part 2) : 1987 (RA 2002)	0.005 % to 0.25 %
		Phosphorous	IS 12308 (Part 5): 1981 (RA 2001)	0.005 % to 0.50 %
<b>6.</b>	<b>Aluminium &amp; its alloy</b>	Silicon	IS 12308 (Part 6): 1991 (RA 2001)	0.1 % to 6 %
		Lead	IS 504 (Part 1): 2002	0.3 % to 15 %
		Iron	IS 504 (Part 1): 2002 ( Titrimetric )	0.01 % to 15 %
		Copper	IS 504 (Part 2): 2002 ( Iodometric )	0.03 % to 2 %
		Zinc	IS 504 (Part 3): 2002 ( Titrimetric )	0.02 % to 2 %
			IS 504 (Part 4): 2002 ( Titrimetric )	0.02 % to 8 %

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<b>7.</b>	<b>Aluminium &amp; its alloy</b>	Manganese	IS 504 (Part 5): 2002 ( Bismuthate )	0.01 % to 1.5 %
		Magnesium	IS 504 (Part 6):2002 ( Oxine )	0.01 % to 12.0 %
		Nickel	IS 504 (Part 7):2002	0.01 % to 4.0 %
		Chromium	IS 504 (Part 8): 2002	0.05 % to 1 %
		Titanium	IS 504(Part 11): 2002	0.05 % to 0.5 %
		Vanadium	IS 504 (Part 12): 2002	0.005 % to 0.02%
	<b>Copper and its alloys</b>	Copper	IS 3685 :1966 (RA 2000) IS 440: 1964 (RA 2006) IS 3187: 1965 IS 4027 (Part 1): 1987 (RA 2006)	55.0 % to 99.5 %
		Lead	IS 3685 : 1966 (RA 2000) IS 440: 1964 (RA 2006) IS 3187: 1965 IS 4027(Part 1): 1987 (RA 2006)	1.0 % to 23.0 %
		Iron	IS 3685: 1966 (RA 2000) IS 3187: 1965 IS 4027(Part 8): 1991 (RA 2006)	0.1 to 7.0 %
		Zinc	IS 3685: 1966 (RA 2000) IS 3187: 1965 IS 4027(Part 6): 1987 (RA 2006)	0.5 % to 40 %

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	<b>Copper and its alloys</b>	Nickel	IS 3685: 1966 (RA 2000) IS 440: 1964 (RA 2000) IS 3187 : 1965 IS 4027(Part 4): 1987 (RA 2006)	0.1 % to 7.0 %
		Manganese	IS 3685 : 1966 (RA 2000) IS 3187 : 1965 IS 4027(Part 2):1987 (RA 2006)	0.1 % to 4 %
		Silicon	IS 3685 1966 (RA 2000) IS 3187: 1965 IS 4027(Part 10): 2000 (RA 2006)	0.1 % to 3.0 %
		Tin	IS 3685: 1966 (RA 2000) IS 440: 1964 (RA 2006) IS 3187 : 1965 IS 4027(Part 1): 1987 (RA 1996)	0.05 % to 14.0 %

### **III. TEXTILE & TEXTILE AUXILIARIES**

<b>1.</b>	<b>Jute &amp; Textile Fibre, filaments, yarn &amp; fabric. (Grey &amp; Finished Cotton, Wool &amp; synthetic Material, Manila &amp; Sisal Fibre, Handloom cotton bandage cloth &amp; handloom cotton gauze absorbent non sterilized) Coated fabric</b>	<b>Blend Composition</b>	IS 2006: 1988, (RA 2004 IS 3416: 1988 ((Part 1 &2) IS 3421: 1988, (RA 1999 IS 6570: 1972, (RA 2004 IS 2005: 1988, (RA 2004 IS 1889: 1976 ((Part 1&2) (RA 2004) IS 8467: 1977, (RA 2004) IS 6503: 1988, (RA 2004) IS 6504: 1979, (RA 1992)	1 % to 100 %
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	<b>Jute &amp; Textile Fibre, filaments, yarn &amp; fabric. (Grey &amp; Finished Cotton, Wool &amp; synthetic Material, Manila &amp; Sisal Fibre, Handloom cotton bandage cloth &amp; handloom cotton gauze absorbent non sterilized) Coated fabric</b>	Identification of fibre	IS 667: 1981, (RA 2003)	Qualitative
		Solvent Extractable	IS 4390: 2001	0.5 % to 20 %
		Chloride Content	IS 4202: 1967 (RA 1999)	0.1 % to 5 %
		Sulphate Content	IS 4203: 1967 (RA 2004)	0.1 % to 5%
		Chromium Content	IS 4655: 1968 (RA 2004)	0.1 % to 5 %
		Water Soluble Matter	IS 3456: 1966 (RA 2000)	0.5 % to 20 %
		Scouring Loss	IS 1383: 1977 (RA 2004) IS 2187: 1982 (RA 2003) Amd.1987 IS 4371: 1994, (RA 2000) IS 2360 : 1977, Amd 1987 G/Tex/W-69/1992	0.5 % to 20 %
		Residual Starch Content	IS 1967 : 1961, (RA 2005)	0.1 % to 2 %
		Oil Content	IS 2969 : 1974 (RA 1999) IS 10036 (Part 1) 1982 (RA 2001) IS 1084 : 2005 IS 1321(Part 1): 2003 IS 199: 1989 (RA 2005)	0.5 % to 20 %
		Barium Activity No	IS 1689 : 1973, Amd. 1982	0.5 % to 250 %
		Iron Content	IS 4655 : 1968 (RA 2004) IS 1039:1989	0.1 % to 4 %
		Identification of Dye	IS 4472 (Part 1):1967 RA 2006 (Part 2): 1968 (RA 2006) (Part 3):1973 (RA 2006)	Qualitative
		Conductivity of water extract	IS 4420: 1967 (RA 1999) Amd. 1983	200 µs/cm to 1000 µs/cm
		p <sup>H</sup> of water extract	IS 1390: 1983 (RA 2004)	1 to 14

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	<b>Jute &amp; Textile Fibre, filaments, yarn &amp; fabric. (Grey &amp; Finished Cotton, Wool &amp; synthetic Material, Manila &amp; Sisal Fibre, Handloom cotton bandage cloth &amp; handloom cotton gauze absorbent non sterilized) Coated fabric</b>	Colour fastness test of various conditions – Perspiration	IS 971 :1983 (RA 2004) ISO 105 E 04: 2013	Rating 1 to 5 Qualitative
		Rubbing	IS 766 : 1988, (RA 2004) IS 1259 : 1984 ISO 105 X12 :2002	Rating 1 to 5 Qualitative
		Organic solvent	IS 688 :1988, (RA 2004)	Rating 1 to 5 Qualitative
		water	IS 767 : 1988, (RA 2004)	Rating 1 to 5 Qualitative
		Washing	IS 687 :1979, (RA 2003) IS 150: 105C10 2006 (A1 – E5)	Rating 1 to 5 Qualitative
		Sea water	IS 690: 1988, (RA 2004 )	Rating 1 to 5 Qualitative
		Bleaching	IS 762 : 1988, (RA 2004) IS 1259 : 1984, (RA 2012)	Rating 1 to 5 Qualitative
		Preservative content	IS : 1039 : 1989, (RA 2005) IS 2089 : 1977, (RA 2001) IS 3522 (Part 1): 1989 (RA 2005) IS 3522 (Part 2): 1989 (RA 2005) IS 3522 (Part 3): 1983 (RA 2004) IS 11662-1986, (RA 2002)	0.1 % to 5 %
		Moisture Content	IS 199 : 1989 (RA 2005)	1 % to 100 %
		Total Sizing Material	IS 199: 1989 (RA 2005)	0.1 % to 15 %
		Ash Content	IS 199 :1989 (RA 2005) IS 2089 :1977 (RA 2001)	0.50 % to 25 %

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		Proofing Content	IS 6803: 1972 (RA 2001) IS 2089: 1977 (RA 2001) IS 4135: 1974, Amendment 2005	0.1 % to 90 %
		Moisture Regain	IS 3790 :1991 (RA 2001 IS 2818 (Part 1 & 2) IS 2566 : 1993, (RA 2000) IS 9113 : 2012	0.1 % to 25 %
		Alumina Content	IS 2089 :1977 (RA 2001)	0.1 % to 2 %
		Free Acidity	IS 2089 : 1977 (RA 2001)	Visual (Qualitative)
		Bleeding Test	IS 1259 : 1984 (RA 2006)	Visual (Qualitative)
		Surface Resistance to chemicals	IS 1259 : 1984 (RA 2012)	Visual (Qualitative)
		Resistance to acid & alkali	IS 5915 : 1970, (RA 2012)	Visual (Qualitative)
		Resistance to Xylol	IS 6110 : 1983, (RA 2001)	Visual (Qualitative)
		Reaction of Aqueous extract	IS 1390 : 1983 IS :6110: 1983 (RA 2001) IS 5915: 1970 (RA 2012)	Visual (Qualitative)
		Wettability	IS : 2349 : 1963 (Amend. 1)	1 to 60 Sec
		Cone test	IS : 6803 : 1972 IS : 7941: 1976, (RA 2004)	Visual (Qualitative)
		Water absorption	IS 6488 : 1999, (RA 2004) IS 7777:1987 IND/TC/0344d	1 % to to 70 %
		Manganese content	IS 1039: 1989 (RA 2005)	0.1% to to 5%



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#### **IV. RUBBER & SYNTHETIC RUBBER**

<b>1. RUBBER (Natural &amp; Synthetic) Rubberized Fabric</b>	Volatile matter	IS 3660 (Part 2): 1985 (RA 2000)	1 % to 20 %
	Rubber Hydrocarbon	IS 3660 (Part 6) 1988 (RA 2000) IS 6110: 1983 ASTM D 297: 2013	1 % to 99 %
	Solvent Extract	IS 3660 (Part 9): 1989 (RA 2000) IS 6110/1983	0.5 % to 15 %
	Dry Rubber Content	IS 3708 (Part 1): 2013	1 % to 99 %
	Rubber Polymer Content	IS 3400 (Part 22): 1984 (RA 2003) IS 5915: 1970 (RA 2012) IS 6110 :1983 (RA 2001) ASTM D 297: 2013	by Calculation
	Silicon Dioxide	IS 3400 (Part 22) : 1984 (RA 2003) ASTM D 297: 2013	0.1 % to 30 %
	Carbon Black		0.1 % to 30 %
	Zinc Oxide		0.1 % to 6
	Sulphur		0.05 % to 8 %
	pH value	IS 9316 (Part 6) 1988 (RA 2000) IS 8391:1987 (RA 2004)	1 to 14
	Ash Content	BS 903 (Part B 13): 1984 ASTM D 297-2013 IS 3400 (Part 22):1984 (RA 2003) ASTM D 1506:99 (2013)	0.5 % to 75 %
	Chloride Content	IS 8391: 1987,(RA 2004)	0.01 % to 1 %

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	<b>RUBBER (Natural &amp; Synthetic) Rubberized Fabric</b>	Resistance to acid & alkali	IS 5915: 1970 (RA 2012)	Visual (Qualitative)
		Resistance to Xylol	IS 6110: 1983 (RA 2001)	Visual (Qualitative)
		Resistance to cold	IND/ME/884 (Prov) 1982 IS 5915:1970, (RA 2012)	(Qualitative)
		Adhesion to and corrosion of metals	IND/ME/914 (Prov), 1990 IND/ME/884 (Prov), 1982	Visual (Qualitative)
		Identification of polymer	IS 3400 (Part 22):1984 (RA 2003) ASTM D 297:2013, RAPRA - 2001	Visual (Qualitative)
		Acetone extract	IS 6110: 1983 (RA 2001)	1 % to 30 %
		Extractable sulphur	IS 6110: 1983 (RA 2001)	0 to 2 %
		Autoclaving test	IS 5915: 1970, (RA 2012) IS 4135: 1974	Visual (Qualitative)
		Heating loss	ASTM D 1509: 1995 (2012)	Visual (Qualitative)
		Iodine Absorption no.	ASTM D 1510: 2013	Visual (Qualitative)
		Fuel soluble matter of rubber hose	IS 10733:1983 (RA 2012) IS 2396:1988 (RA 2003) IS 8189: 1996 (RA 2012)	0.5 % to 10 %
<b>V.</b>	<b>LEATHER</b>			
<b>1.</b>	<b>Leather</b>	Volatile Matter	IS 582 (LC-1): 1970 (RA 2003)	0.5 % to 30 %
		Moisture Content	IS 582 (LC-2): 1970 (RA 2003)	0.5 % to 20 %
		Hide Substance	IS 582 (LC-5): 1970 (RA 2003)	1 % to 80 %

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	Leather	Water soluble matter	IS 582 (LC-6): 1970 (RA 2003)	0.5 % to 30 %
		Sulphated ash of water soluble	IS 582 (LC-7): 1970 (RA 2003)	0.1 % to 20 %
		Water insoluble ash	IS 582 (LC-8): 1970 (RA 2003	0.1 % to 20 %
		Water soluble organic substance	IS 582 (LC-9): 1970 (RA 2003)	0.1 % to 25 %
		Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> )	IS 582 (LC-10): 1970 (RA 2003)	0.1 % to 6 %
		Water soluble magnesium salt	IS 582 (LC-16): 1970 (RA 2003)	0.1 % to 5 %
		Bound organic substance, Degree of tannage	IS 582 (LC-21): 1970 (RA 2003)	0.1 % to 25 % (By Calculation)
		p <sup>H</sup> value of water soluble matter	IS 582 (LC-18): 1970 (RA 2003)	1 to 14
		Solvent Extractable Substance	IS 582 (LC-4): 1970 (RA 2003)	0.5 % to 15 %
		Ash Content	IS 582 (LC-3): 1970 (RA 2003)	0.1 % to 30 %
		Resistance to heat	IS 5677: 1986 App. A	Visual (Qualitative)
VI.	PAINTS AND SURFACE COATING			
1.	Paints & Pigments	Drying Time Surface Dry/Tack free/Hard dry	IS 101 (Part 3/Sec 1):1986 (RA 2007)	Visual (Qualitative)
		Mass /10 liter	IS 101 (Part 1/Sec7):1987 (RA 2004)	6 to 30

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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>Paints &amp; Pigments</b>	Scratch Hardness	IS 101 (Part 5/Sec. 2): 1988 (RA 2004)	Visual (Qualitative)
		Consistency & viscosity	IS 101 (Part 1 / Sec.5): 1989(RA 2004)	10 to 500 Sec
		Flexibility & adhesion	IS 101 (Part 5/Sec.2): 1988 (RA 2004)	Visual (Qualitative)
		Flash Point	IS 101 (Part 1/Sec 6):1987 (RA 2010)	20 °C to 65 °C
		Non volatile matter	JSS 8010-63-1997 (App A)	1 % to 75 %
		Corrosion a) Under artificial sea water b) Under condition of condensation c) Salt spray	IS 101 (Part 6 / Sec.1): 1988(RA 2010) (Clause 4) IS 101 (Part 6 / Sec.1) (Clause 2) IS 101 (Part 6 / Sec.1) (Clause 3) ASTM B 117 ISO 9227-06 (07-15)	Visual (Qualitative)
		Pigment Content	IS 2074: 1992 IS 8992: 1992 IS 101 (Part 8/Sec 2): 1990 (RA 2000)	10 % to 70 %
		Volatile matter	IS 101 (Part 2 Sec.2):1986 (RA 2001) IS 289:1963 (App D)	5 % to 70 %
		Preliminary examination	IS 101 (Part 1/ Sec. 2): 1987	Visual (Qualitative)
		Water Content	IS 101 (Part 2/ Sec 1): 1988 (RA 1996)	0.1 % to 40 %
		Resistance to water	IS 101 (Part 7/ Sec. 1):1989 (RA 1998) M&C/PCN/100/2009 & 109/2009	Visual (Qualitative)
		Thickness of Coating	IS 101 (Part 3/ Sec. 2): 1989	20 to 600 micron
		Freedom from defects	NES 805 (Part 1): issue 2 (Cl. 0506 )	Visual (Qualitative)

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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>Paints &amp; Pigments</b>	Penetration test with water	NES 805 (Part. 1): issue 2 (Clause 0507)	Visual (Qualitative)
		Penetration test with diesel oil	NES 805 (Part 1): issue 2 (Clause. 0507 )	Visual (Qualitative)
		Penetration test with Lubricating oil	NES 805 (Part 1): issue 2 (Clause. 0507 )	Visual (Qualitative)
		Steam Test	NES 805 (Part 1):, issue 2 (Clause 0508 )	Visual (Qualitative)
		Leachable chloride	NES 805 (Part 1): issue 2 (Clause 0509 )	Present/absent (Qualitative)
		Water vapour permeance	ASTM E: 96	Visual (Qualitative)
		Leafing value	IS 289: 1963,(RA 2001)	20 % to 100 %
		Grease content	IS 289: 1963,(RA 2001)	0.5 % to 10 %
		Settling properties	IS 289: 1963, (RA 2001)	1 ml to 50 ml
		Resistance to Artificial sea water	IS 2074 (Annex C): 1992	Visual (Qualitative)
		Opacity	IS 101 (Part 4/Sec 1): 1988(RA 2004)	8 m <sup>2</sup> to 350 m <sup>2</sup> /10 lit
		Finish	IS 101 (Part 3/Sec 4): 1987(RA 2004)	Visual (Qualitative)
		Volume solids	IS 2074: 1992 (Annex D) IS 101(Part 8/Sec6):1993 (RA 1998)	20 % to 90 %
		Accelerated storage stability test	IS 2074: 1992(App E)	Indicative (Qualitative)

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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>Paints &amp; Pigments</b>	Fineness of grind	IS 101 (Part 3/Sec 5): 1987	5 to 100 micron
		Impact Test	IS101 (Part 5/Sec 3): 1999 Falling ball method	Qualitative
		Moist vapour	IS 101 (Part 6/Sec3): 1990	Qualitative
		Resistant to heat	IS 101 (Part 7/Sec 3): 1990 IS 13183-1991, Reaffirmed 1996 IS 341-1973 App D (RA 1996)	Qualitative
		Ash content	IS (Part 8/Sec 3):1993 JSS 8010-63-1997	0.05 % to to 50 %
		Residue on sieve	IS 101 (Part 8/Sec 1): 1989	0 to 10 %
		Phthalic Anhydride	IS 101 (Part 8/Sec 4): 1993	0.1 % to 30 %
		Acid value	IS 101 (Part 9/Sec 1): 1993	0.1 to 20 mg/KOH
		Rosin Test	IS 101 (Part 9/sec 2): 1993	Qualitative
		Pot Life	M&C/PCN/100/2009 and 109/2009	Qualitative
		Resistance to liquid	IS 101 (Part 7/Sec 2): 1990 (RA 2005)	Qualitative
		Resistance to acid, alkali & solvent	M&C/PCN/100/2009 and 109/2009 IS 2932-2003	Qualitative
		Pressure test	IS 101(Part 5/Sec 1): 1988	Qualitative
		Rubbing property of putty	M&C/PCN/100/2009 & IS 5083-1988,(RA 2004	Qualitative

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	<b>Paints &amp; Pigments</b>	Stopping property of putty	M&C/PCN/100/2009 & IS 5083-1988, (RA 2004)	Qualitative
		Compatibility of paint system	M&C/PCN/100/2009 & IS 5083	Qualitative
		Holdout property	M&C/PCN/100/2009 & IS 5083-1988 (RA 2004)	Qualitative
		Resistance to Benzol	IS 2932-2003	Qualitative
		Iodine value for varnish & shellac composition	JSS 8010-63-1997	0 to 25 %
		Compatibility with white spirit	JSS 3-47-05, Cl 7.2.4	Qualitative
		Fire retardant property	JSS 3-47-05, App. B	Qualitative
		Recoating property	IS 101	Qualitative
		Stripping test	IS 101 (Part 5/Sec 2)-1988	Qualitative
		Reaction with white paint	IS 341-1973, App B (RA 1996)	Qualitative
		<u>Pigment Analysis</u>		
		Calcium compound	IS 8982-1991, Annex J IS 6947 (Part 1)1973	0 to 30 %
		Barium compound	IS 8982: 1991, Annex J	0 to 40 %
		Chromium oxide (Cr <sub>2</sub> O <sub>3</sub> )	IS 8982: 1991, Annex B IS 6947 : 1975 Pt III	1 % to 50 %

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	<b>Paints &amp; Pigments</b>	Chromic anhydride (CrO <sub>2</sub> )	IS 1874: 1992, Annex B IS 104 : 1979	1 % to 50 %
		Zinc oxide (ZnO)	IS 2074-1992, Annex B IS 1874-1992, Annex B IS 104-1979	1 % to 50 %
		Iron oxide	IS 6947 ((Part 3): 1975	1 % to 90 %
		Titanium oxide	IS 6947 ((Part 1): 1975 IS 411-1991 (Al reduction method) (RA 2002	1% to 50 %
		Aluminum	IS : 6947 ((Part 2): 1975	1 % to 70 %
		Lead restriction	IS 101 (Part 8/ Sec 5): 1993	0 to 5 %
		Zn phosphate	IS 12744: 1989	0 to 25%
		Metallic Zn	IS 4611: 1991 (RA 2003)	0 to 99 %

## **VII. WOOD/ PLYWOOD**

<b>1.</b>	<b>Wood/ Plywood</b>	Determination of Cu, As, Cr, Zn & B, total content	IS 2753 (Part 1 ): 1991	0 to 25 kg/m <sup>3</sup>
		Moisture content	IS : 1734-1983	1 % to 20%

## **VIII. PAPER AND PULP**

<b>1.</b>	<b>Paper Base paper for Carbon Paper, Computer Paper, Coated Paper &amp; Printing Paper</b>	Moisture content	IS 1060 (Part 1): 1966	0.1 % to 15%
		pH value	IS 1060 (Part 1) 1966	1 to 12
		Water Absorbancy	IS 1060 (Part 1): 1966	0.1 % to 50 %
		Water soluble chloride	IS 1060 (Part 2): 1960	0.1% to 1.0 %



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	<b>Paper Base paper for Carbon Paper, Computer Paper, Coated Paper &amp; Printing Paper</b>	Water soluble sulphates	IS 1060 (Part 2): 1960	0.1 % to 2.0 %
		Ether soluble matter	IS 1060 (Part 2): 1960	0.1 % to 5.0 %
		Benzene soluble matter	IS 1060 (Part 2): 1960	0.1 % to 5.0 %
		Fatty acid	IS 1060 (Part 2): 1960	0.1 % to 5.0 %
		Ash content	IS 1060 (Part 2): 1960	0.1 % to 10.0 %
		Lead	IS 1060 (Part 2): 1960	0.01 % to 1.0 %
		Alkalinity as CaCO <sub>3</sub>	IS 1060 (Part 2): 1960	0 to 5 %

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