TEST FACILITIES REQUIRED FOR GRAIN ORIENTED ELECTRICAL STEEL SHEET & STRIP AS PER IS 3024:2006

Sl. No.	IS Clause No.	Requirement	Name of Test Equip/Chem.	Range	L.C			
1		Chaminal(antianal)	etc.					
1. 2.	7.1 7.4.&15.2	Chemical(optional) Coating adhesion	As per buyer requirement/ arrange Bend tester with bend former	5 mm		Sec 11, 68.7		
2.	7.4.0013.2	Couring auticsion	radius of 5mm	mandrel		of		
				radius		IS 649		
3.	7.4.&15.2	Liquid						
		compatibility (optional)	As per buyer requirement in according to 68 of IS 649.					
4.	8.1,8.2 &	Core loss	Epstein Test Frame	-	-			
	15.2,14.4		Tesla meter	0-2.0T	0.001T	Sec 1&2,		
			Timer	0-12 hrs	5 min.	5-12 of IS		
			Vernier Caliper	0-300mm	0.1mm	649		
			Frequency meter	40 to100	1Hz			
			Flux Volt meter	Hz				
			RMS Volt meter					
			Watt meter					
			RMS Ammeter					
			AC Power		2 / 70 %			
			Ageing oven	0.00000	2/5°C			
			Micrometer	0-300 °C	0.01mm			
		7771 · 1		0-10mm	100			
		Thickness	Thermometer,	0.5000	1°C			
		I -1 C(11	Air conditioner with Heater	0-50°C	-			
		Lab Standard	Sharing machine, Punching m/c,	-	- 5/10°C			
		Room Cond. &	lab stress relieving furnace (non	0-1000°C	5/10°C			
		Sample	oxidizing) with Temp. indicator	0-1000 C	1 am			
		preparation& conditioning.	Weighing balance	0-1000gm	1gm			
		conditioning.		o roogin				
5.	8.1,8.2 &	Single Sheet		ted above.		IEC test		
	14.3,15.4	Tester	(only for domain refined material grades)			method as per IS 649,		
6.	9, 9.1 &	Surface Insulation	Test Head			Sec 4		
	9.2.1	resistance	Press			22-29 of IS		
		(Franklin tester)	Pressure Gauge	0	.0.7	649		
			Hot Plate	0-200°C	1°C			
			Ammeter					
			Voltmeter	0.21	0.1			
			Weighing machine	0-2kg	0.1g 0.01mm			
			Vernier caliper thermometer	0-300mm				
7	10.1& 15.2	Stoolsing forter		0-20 C	1 C	Sec. 7 45 47		
7.	10.1& 15.2	Stacking factor	Compression device/CTM Pressure gauge	0-10kgf/cm2	0.1kgf/cm	Sec7,45-47 of IS 649		
			Vernier caliper/dial gauge	0-300mm	2	01 13 047		
			Weighing machine	0-1kg	0.01mm			
			Rigid metal plates	-	1g			
8.	10.2 & 15.2	Ductility	Bend tester/Thinner brake with	1000mm wide		Sec 8,55-61		
0.	10.2 & 13.2	Ductiffty	apron brake & with hand folder	0-3000mm	5mm	of IS 649		
			Measuring tape		J.11111	01 15 077		
9.	11.1 , 11.2	Thickness	Micrometer	0-25mm	0.01mm	Sec10,64.1		
7.	8.1	THEMICOS	Long arm digital gauge/x-ray	0-25mm	0.01mm	of IS 649		
	5.1		tester	5 2 5 mm	0.01111111	0115017		
	1		COCOI					

10.	11.2, 11.3 &15.2	Width Length	Measuring Scale/Vernier Measuring tape	0-1000mm 0-3000mm	0.1mm 1mm	SEC10., 64.2.1, 64.2.2 of IS 649
11.	11.4	Edge Camber	Straight edge Depth gauge/Vernier caliper	1000mm 0-50mm	- 0.1mm	SEC 10, 65.3 of IS 649
12.	11.5 & 12.1	Flatness/Wave factor	Steel scale Taper Gauge Surface plate	0-100mm 3mx1mx250 mm	1mm	SEC10, 65.1 of IS 649
13.	11.6	Burr height	micrometer	0-25mm	0.01mm	SEC10, 64.4 of IS 649
14.	17	Bundle/coil weight	Weigh bridge	0-6T as per buyer requirement		