2.10.6.2 Sample preparation and preliminary inspection

Three sample boards (or, for 2.10.9, two components and one board) identified as samples 1, 2 and 3 are required. It is permitted to use either actual boards or specially produced samples with representative coating and minimum separations. Each sample board shall be representative of the minimum separations used, and coated. Each sample is subjected to the full sequence of manufacturing processes, including soldering and cleaning, to which it is normally subjected during equipment assembly.

When visually inspected, the boards shall show no evidence of pinholes or bubbles in the coating or breakthrough of conductive tracks at corners.

Table 2N - Minimum separation distances for coated printed boards

WORKING VOLTAGE				FUNCTIONAL, BASIC or SUPPLEMENTARY INSULATION	REINFORCED INSULATION
		V r.m.s. or d.c.		mm	mm
		up to and including	63	0,1	0,2
Over	63	up to and including	125	0,2	0,4
Over	125	up to and including	160	0,3	0,6
Over	160	up to and including	200	0,4	0,8
Over	200	up to and including	250	0,6	1,2
Over	250	up to and including	320	0,8	1,6
Over	320	up to and including	400	1,0	2,0
Over	400	up to and including	500	1,3	2,6
Over	500	up to and including	630	1,8	3,6
Over	630	up to and including	800	2,4	3,8
Over	800	up to and including	1 000	2,8	4,0
Over	1 000	up to and including	1 250	3,4	4,2
Over	1 250	up to and including	1 600	4,1	4,6
Over	1 600	up to and including	2 000	5,0	5,0
Over	2 000	up to and including	2 500	6,3	6,3
Over	2 500	up to and including	3 200	8,2	8,2
Over	3 200	up to and including	4 000	10	10
Over	4 000	up to and including	5 000	13	13
Over	5 000	up to and including	6 300	16	16
Over	6 300	up to and including	8 000	20	20
Over	8 000	up to and including	10 000	26	26
Over	10 000	up to and including	12 500	33	33
Over	12 500	up to and including	16 000	43	43
Over	16 000	up to and including	20 000	55	55
Over	20 000	up to and including	25 000	70	70
Over	25 000	up to and including	30 000	86	86

For voltages between 2 000 V and 30 000 V linear interpolation is permitted between the nearest two points, the calculated spacing being rounded up to the next higher 0,1 mm increment.