

HEAT SHOK TEST FOR ENAMELLED ROUND ALUMINIUM WINDING WIRES (BASIS : IS 13730-.. and IS 13778 – 6 & IEC 60317-..)

Nominal Conductor Diameter		Heat shock test requirements					
Over	Up to incl.	From	Up to incl.	Temp. & Mandrel diameters (mm) stretching requirements			
(mm)	(SWG)				IS 13730 Part 9 Polyester Wires Class 130	IEC 60317 Part 15 Polyester-imide Wires Class 180	IEC 60317 Part 15 Polyester-imide & PAI DC Wire Class 200
Heat Shock Temperature					155	200	220
0.25				1.25	3d	3d	
0.28				1.68	3d	3d	
0.315				2	3d	3d	
0.355				2.4	3d	3d	
0.400				2.5	3d	3d	
0.450				2.8	3d	3d	
0.500				3.15	3d	3d	
0.560				3.55	3d	3d	
0.630				4	3d	3d	
0.710				4.5	3d	3d	
0.800				5	3d	3d	
0.900				5.4	3d	3d	
1,000				6.3	3d	3d	
1,120				7.1	3d	3d	
1,250				9	3d	3d	
1,400				10	3d	3d	
1,600				11.2	3d	3d	
1,800				(2)	(1)	(1)	
2,000				(2)	(1)	(1)	
2,240				(2)	(1)	(1)	
2,500				(2)	(1)	(1)	
Notes :							
1) d = Nominal Conductor diameter							
2) D = Overall diameter of the wire							
3) Elongation before winding on Mandrel							
(1) = 15% (Or to the breaking point of conductor)							
(2) = 10% (Or to the breaking point of conductor)							