



# IPC-TM-650 TEST METHODS MANUAL

**1.0 Scope** This test method is designed to measure the viscosity of paste flux.

**2.0 Applicable Documents** None

**3.0 Test Specimen** Enough paste flux to fill a container with a minimum diameter of 4 cm to a minimum depth of approximately 10 cm.

## 4.0 Apparatus and Reagents

**4.1** Brookfield RVT viscometer or equivalent with helipath stand and a TC spindle.

**4.2** Water bath capable of holding 25 +/-0.5°C.

**4.3** Stopwatch

**4.4** Spatula

## 5.0 Procedure

### 5.1 Test

**5.1.1** Place container of paste flux in water bath at 25 +/- 0.5°C.

**5.1.2** When medium has attained thermal equilibrium, place container under spindle so that it is at center of surface.

**5.1.3** Start the Brookfield at 5 revolutions per minute and start the Helipath stand on descend.

**5.1.4** Two minutes after the spindle has cut into the top surface of the medium, record the value. Check that spindle is not touching bottom of container.

**5.1.5** Remove spindle from the paste flux. Using spatula, stir the flux vigorously for 15 to 20 seconds and remeasure viscosity.

**5.2 Expression of Results** The viscosities are calculated from the values recorded after 2 minutes of medium penetration. Both stirred and unstirred results should be quoted.

Number <b>2.4.34.4</b>	
Subject <b>Paste Flux Viscosity – T-Bar Spindle Method</b>	
Date <b>1/95</b>	Revision
Originating Task Group <b>Flux Specifications Task Group (5-24a)</b>	

## 6.0 Notes

**6.1 Safety** Observe all appropriate precautions on MSDS for chemicals involved in this test method.