

### Corrosiveness to Copper from Industrial Aromatic Hydrocarbons

ASTM D849



- Stainless steel bath**
- Cooling coil**
- Bath drain**
- Easy to operate**
- Six positions**
- Delivered with six sets of glassware**

Item	Unit	
Set-up D849 TC40 with glassware 230V	50 or 60 Hz	00T2015
Set-up D849 TC40 with glassware 115V	60Hz	00T2016
Power	[kW]	3.0
Range	°C °F	Ambient .. 250 Ambient ..482
Reading		°C or °F
Setting	[°]	0.1
Stability	[°K]	0.02
Heating	[kW]	2.8
Bath volume	[L]	40
Bath opening	[mm]	6
Bath depth	[mm]	220
Length	[mm]	480
Width	[mm]	295
Height	[mm]	480
Materials	Used inside bath: stainless steel 304	
CE	Conforms to CE regulation	

#### General

The test method covers the detection of the corrosiveness to copper from aromatic hydrocarbons. The set-up consists of a six position TC40 circulator bath and it is standard delivered with six sets of glassware (250 mL flask and condenser). The cover of the bath has six openings, each with a lid and stand with clamps to hold the glassware in the same position. The temperature range is from ambient +5°C to 250°C. All accessories for this test method are supplied by Tamson, please see table 2.

#### Accuracy

The insulation of the bath and electronic design result in a very stable working temperature of  $\pm 0.02^\circ$ . The set point can be set in steps of 0.1° in the range of 0°C up to 250°C (-148..482°F). The accuracy on the display is displayed in 0.1°C. However the controller has an internal accuracy of 0.01°C.

#### Temperature readout

Standard available in °C, on request in °F.

#### Pump

When not used for copper corrosion tests, the pump can be used to circulate the bath content to an external application.

#### Safety

The bath conforms to CE regulation. It is further equipped with a mechanical resettable safety thermostat. Optional is a low liquid float (P/N 07T0080).

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## Set-up for ASTM D849

Table 1: Set-up ASTM D849 P/N 00T2015 or P/N 00T2016 consists of:

Item	Picture	Description
00T0681 or 00T0851		TC40 circulator bath, either 230V/50-60Hz or 115V/60Hz.
07T0211		Levelling platform for TC40 (standard included).
03T2011		Top cover ASTM D849 with six holes (standard included).
03T2012		Small lid for top cover (six pieces standard included).
31T2011		Glass condenser for ASTM D849, 300 mm height with NS 29 connection (standard six pieces included).
31T2012		Flask (250 mL) with flat bottom with NS 29 connection (standard six pieces included).
24T0072		Double boss head cross with brass clamping screws.
24T0073		Cooler clamp for stand-rod.
24T0068		Stand-rod (two included).

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#### Accessories for ASTM D849

Table 2: Accessories for ASTM D849		
Item	Picture	Description
31T0003		ASTM copper strip corrosion test standard.
31T0007		Copper strip with hole (per one strip) 12.5 x 3.0 x 75 mm (W x thick x L) 99.9 % purity.
31T0000		Multi-Strip vice, holds up to four strips while Polishing.
31T0005		Silicon carbide powder 105 µm (1kg).
09T0011		Flat viewing test tube.
08T0001		Bath fluid silicon oil 20..150°C 20 ltr. Two cans needed!
25T0911		ASTM thermometer 12C.
25T2154		Thermometer holder, 425 x 10 mm.
31T0009		Sanding paper silicon carbide P240. Per one sheet.
31T0320		Soft copper. 99.9% purity. 0.5 mm. Rol of 30 m.