

### 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	TC40
Apparatus D849 TC40 with glassware 230V/50-60Hz		00T2015
Apparatus 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	[°C]	0.02
Heating	[kW]	2.8
Bath volume	[L]	40
Bath openings	[mm]	6
Bath depth	[mm]	220
Length	[mm]	480
Width	[mm]	295
Height	[mm]	480
Materials	Used inside bath: stainless steel 304, brass	
CE	Conforms to CE regulation	

#### General

The ASTM D849 test method covers the detection of the corrosiveness to copper from aromatic hydrocarbons. The apparatus 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-rods 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  $0.1^\circ$  in the range of  $0^\circ\text{C}$  up to  $250^\circ\text{C}$  ( $-148..482^\circ\text{F}$ ). The accuracy on the display is displayed in  $0.1^\circ\text{C}$ . However the controller has an internal accuracy of  $0.01^\circ\text{C}$ .

#### Temperature readout

Standard available in  $^\circ\text{C}$ , on request in  $^\circ\text{F}$ .

#### 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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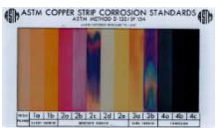









Apparatus for ASTM D849

**Table 1: Apparatus ASTM D849 P/N 00T2015 or P/N 00T2016 consists of the following parts:**

P/N	Picture	Quantity	Description
00T0681		1	TC40 circulator bath, 230V/50-60Hz.
00T0851			TC40 circulator bath, 115V/60Hz
07T0211		1	Levelling platform for TC40
03T2011		1	Top cover ASTM D849 with six openings
03T2012		6	Small lid for top cover (P/N 03T2011)
31T2011		6	Glass condenser for ASTM D849, 300 mm height with NS 29 connection
31T2012		6	Flask (250 mL) with flat bottom with NS 29 connection
24T0072		6	Double boss head cross with brass clamping screws
24T0073		6	Cooler clamp for stand-rod
24T0068		2	Stand-rod

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Accessories for ASTM D849

Table 2: Accessories for ASTM D849			
Item	Picture	Suggested quantity	Description
31T0003		1	ASTM copper strip corrosion test standard.
31T0007		30	Copper strip with hole (per one strip) 12.5 x 3.0 x 75 mm (W x thick x L ) 99.9 % purity.
31T0000		1	Multistrip vise, holds up to four strips while polishing.
31T0005		1	Silicon carbide powder 105 µm (1kg).
09T0011		6	Flat viewing test tube.
08T0001		2	Bath fluid silicon oil 20..150°C 20 ltr.
25T0928BW		1	ASTM thermometer similar to 34C with blue filling (low-hazardous to ship). Temp. range +25°C-105°C:0.2°C. Supplied with works certificate.
25T2154		1	Thermometer holder, 425 x 10 mm.
31T0009		100	Sanding paper silicon carbide P240. Per one sheet.
31T0320		1	Soft copper. 99.9% purity. 0.5 mm. Rol of 30 m.