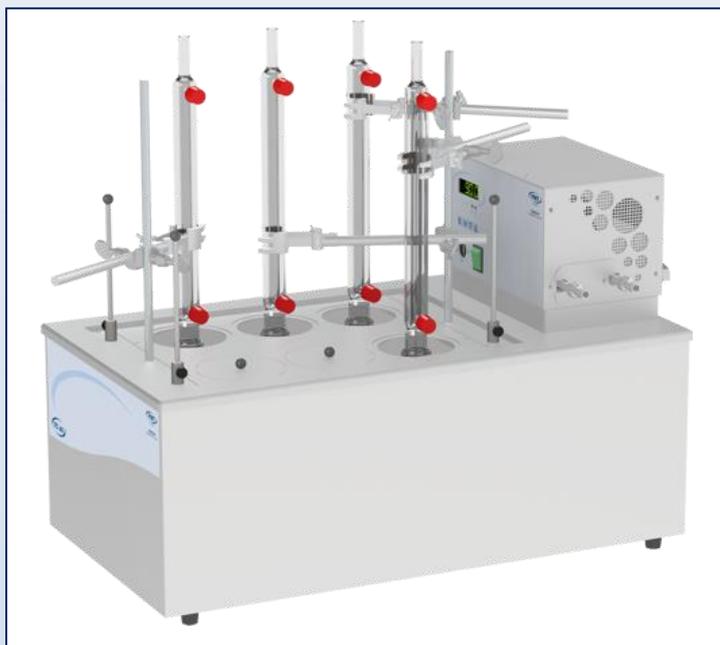


News Headlines:

- ✓ New Apparatus to Detect Corrosiveness to Copper from Aromatic Hydrocarbons according to ASTM D849.
- ✓ Lids for Cylinders of ASTM D1298 Apparatus.
- ✓ Complete Set-Up for ASTM D4807.

New Apparatus to Detect Corrosiveness to Copper from Aromatic Hydrocarbons conforming ASTM D849.

Tamson is pleased to introduce our new apparatus for ASTM D849. This test method covers the corrosiveness of industrial aromatic hydrocarbons to a copper strip.



Picture 1: ASTM D849 Apparatus

What kind of test is it?

A polished copper strip is immersed in 200 mL of specimen in a flask with a condenser and placed in boiling water for 30 minutes. At the end of this period, the copper strip is removed and compared with the ASTM copper strip corrosion standard.

Why is this test important?

This test method is suitable for setting specifications, for use as an internal quality control tool, and for use in development or research work on industrial aromatic hydrocarbons and related materials. It also gives an indication of the presence of certain corrosive substances which may corrode and damage equipment, such as acidic compounds or sulfur compounds.

What is included in the D849 apparatus?

The apparatus consists of a six position TC40 circulator bath and it is delivered with six sets of glassware (250 mL flasks and glass condensers) as standard. The cover of the TC40 has six openings, each with a lid. The TC40 is equipped with a levelling platform and two stand rods with six clamps to hold the glassware in a vertical position. The temperature range of the TC40 is from ambient +5°C to 250°C.

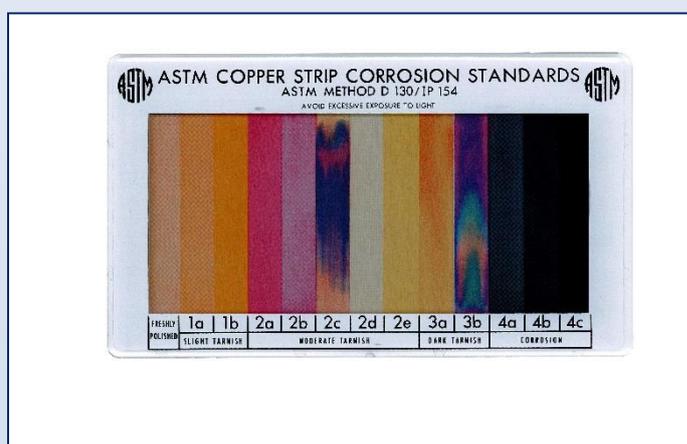
Advantages of our apparatus.

The D849 apparatus (P/N 00T2015 for 230V/50Hz and P/N 00T2016 for 115V/60Hz) has several advantages. The TC40 is a high quality, robust circulator made from stainless steel, able to operate at high temperatures. The pump, which circulates the bath contents, is constructed in such a way that it can withstand high temperatures up to 250°C when higher temperatures are required. Due to the levelling platform, the depth of the flasks can be adapted to the level of the bath medium. Also, a drain to empty the bath is included.

We deliver all accessories (e.g. copper strips, sanding paper, silicon carbide power, multi-vice strip) for this method. Please download the ASTM D849 specification sheet from our website.



Picture 2: Copper strips



Picture 3: Corrosion standard

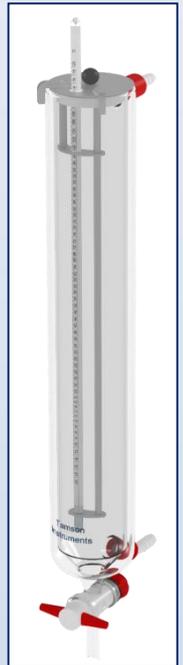
Lids for Cylinders of ASTM D1298 Apparatus.

Several years ago, Tamson introduced our apparatus for ASTM D1298. We have now improved our design by adding lids to close the jacketed cylinders. The lids have openings so that the thermometer in its holder can stay in the cylinder before the hydrometer is placed in the sample. The lid prevents moisture from condensing in the sample when it is preconditioned to reach 15°C. This phenomenon can occur in regions with high humidity. The lids can also be used to close the cylinder to prevent dust or other contamination from entering the cylinder or when the special ASTM D1298 thermometer is not in use.

As of April 2016, three lids will be included as standard with every shipment. Customers can also back order these lids. Please contact our sales team to obtain part number and pricing.



Picture 4: ASTM D1298 Apparatus



Picture 5-7: Lid to close jacketed cylinder

Complete Set-Up for ASTM D4807.

Last year, we introduced a turn-key apparatus for ASTM D4807. This test method covers the determination of sediment in crude oils by membrane filtration and has been validated for crude oils with sediments up to approximately 0.15 mass per cent.

Our complete apparatus consists of a TC16 circulator which pumps the bath content through the jacketed (double wall) funnel to maintain the crude oil sample at 90°C. Initially, Tamson didn't have a part number for the complete D4807 apparatus, so all parts needed to be ordered separately. We have changed this to make it easier for our dealers and customers.



Picture 8: ASTM D4837 Apparatus

A complete D4807 set-up (P/N 00T2010 for 230V/50Hz, and P/N 00T2011 for 115V/60Hz) consists of:

- TC16 circulator
- Jacketed funnel
- Filter support
- Clamp
- Rubber stopper
- Vacuum filtering flask (1000 mL)
- Glass T-piece with ground wire
- Insulated tubing with connectors
- Stand with clamps and grounding wires
- Box of 100 membrane filters
- Vacuum pump with vacuum tubing

The main advantage of our apparatus is the use of a jacketed funnel instead of a wired copper coil. This ensures safe operation of the test. The TC16 can also be used to prepare the sample and the toluene mixture at the required temperature of 90°C. Please visit our website to download our new specification sheet.

For more information, please contact our sales team via sales@tamson.com or visit our website: www.tamson.com