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SPECIFICATIONS

40500 INTERNATIONAL SEALANT LAB MELTER

Per designation: D5167 - 03

JULY 2026

International Sealant Laboratory Melter: The equipment for melting of the joint sealant or filler shall be an oil-jacketed melter equipped with a mechanical agitator and thermometers for the oil bath and mechanical agitator for material in the melting vat.

The heat transfer oil to be used shall be a high flash point oil that is in excess of 600°F (315°C).

The heat source shall be thermostatically controlled and capable of maintaining the heat transfer oil temperature within a tolerance of ± 5°F (± 3°C) and capable of heating the oil to a maximum of 550°F (288°C).

The mechanical agitator speed for the material shall be 30 ± 5 rpm when fully loaded and the agitator speed for the oil bath shall be such to allow continuous circulation of the oil.

Except when adding the sealant or filler sample, or checking temperature, the melters pots shall be covered with close fitting lids.

The melter shall utilize a removable sample pot(s) for melting of test samples. The sample pot(s) shall consist of a 48oz metal can, 4½” Dia. X 7.0” tall, and shall be replaceable to prevent cross contamination of samples.

The thermometers used in this melting operation shall meet the requirements of Specification E 1 and be checked for calibration using Test Method E 77.

Melter shall include an electric hot oil mixer. It shall consist of a 120VAC, 1/15HP motor; speed shall be adjustable from 0- 2000 RPM and have a 2.5” propeller attached to the shaft.

Melter dimensions shall be approximately 40.23” long, 23.91” wide, and 40.73” tall. Weight shall be approximately 300 lbs.

Melter heater controls, material agitation and hot oil circulation shall operate from 120VAC, 60hz, 15 AMP circuit, and shall include a NEMA 5-15P plug for the power supply.
(For use in countries having 50Hz power frequency, the heater controls, material agitation and oil circulation must be powered through an external power converter for both voltage and frequency and is not included. Please refer to the operation manual for more information about required power converter and a suggested supplier)

Melter shall use two 1900-watt Firerod cartridge heaters, and operate on 220VAC, 50/60Hz, 20 AMP circuit. (Heaters can operate on 50Hz or 60Hz frequencies and do not require a frequency power converter. Heater power cord is not supplied with a plug attached and shall be supplied by end user to fit their regional plug requirements).

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