# Thermosel™

...for elevated temperature testing of hot melts, asphalt, wax, polymers & more

**The Brookfield Thermosel provides a stable, precisely controlled sample environment. This, together with the inherent accuracy of the Brookfield Viscometers, is fundamental to the Thermosel System, which produces viscosity measurements that are not only accurate but entirely reproducible.**

Extracting Tool enables the sample chamber to be handled easily and safely.

Alignment Bracket ensures concentricity of spindle and sample chamber.

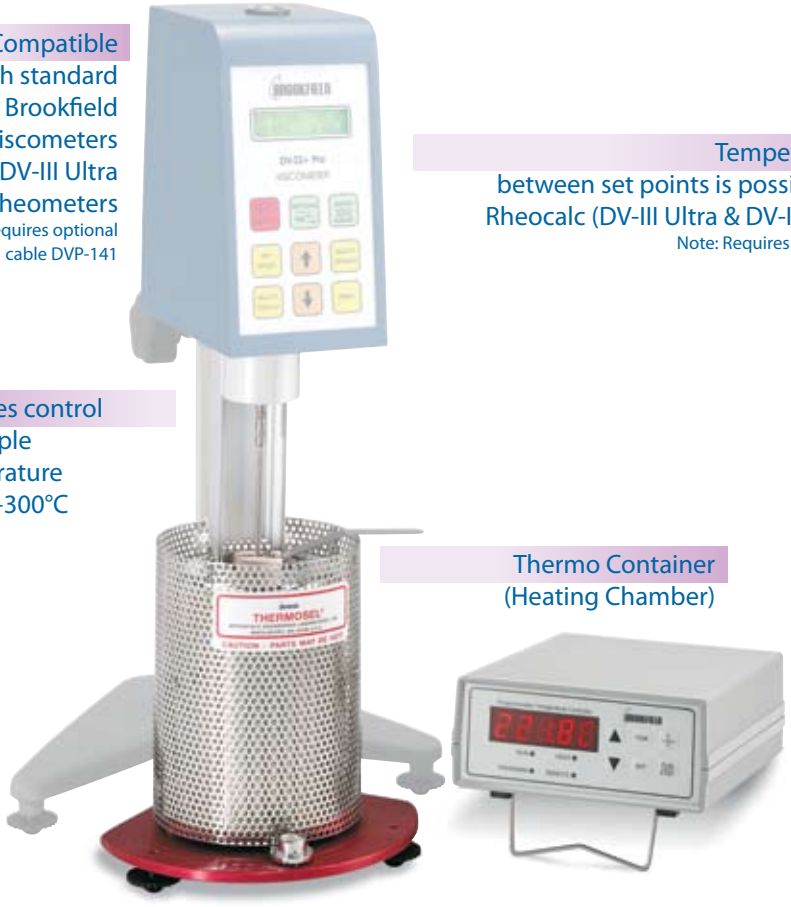
Other components supplied include sample chamber holder, RTD probe, insulating cap, coupling link, coupling nut and choice of SC4 spindle.

Compatible with standard Brookfield Viscometers and DV-III Ultra Rheometers
Note: requires optional cable DVP-141

Temperature Ramping between set points is possible if used with Rheocalc (DV-III Ultra & DV-II+Pro) Software
Note: Requires optional cable HT-106

Provides control of sample temperature up to +300°C

Thermo Container (Heating Chamber)



Programmable Temperature Controller offers single set point or up to 10 programmable set points.

## Brookfield Temperature Control

United States: T: 800.628.8139 or 508.946.6200 F: 508.946.6262 www.brookfieldengineering.com
United Kingdom: T: 01279 451774 F: 01279 451775 www.brookfield.co.uk

# What's Included?

Choice of one SC4 Spindle
Specify when ordering

Alignment Bracket

Thermo Container with safety guard and insulating cap

1 Removable Sample Chamber

5 Disposable Sample Chambers
Order additional chambers in quantities of 100, HT-2DB-100

Extracting Tools

Temperature Controller with an RTD probe

# Optional

Option: Disposable Sample Chamber with optional Disposable Spindle SC4-27D is ideal for asphalts or any difficult-to-clean material.

Order disposable SC4-27D spindle in quantities of 100, Part No. SC4-27D-100.
Requires special chuck/closer, Part No. SC4-DSY, for attachment to viscometer.
Order disposable HT-2DB chambers in quantities of 100, Part No. HT-2DB-100.

# Thermosel Viscosity Ranges (mPa•s)

| MODEL | Spindle SC4-18 Sample Volume 8 mL Shear Rate ($sec^{-1}$) 1.32N | Spindle SC4-31 Sample Volume 10.0mL Shear Rate ($sec^{-1}$) .34N | Spindle SC4-34 Sample Volume 9.5mL Shear Rate ($sec^{-1}$) .28N | Spindle SC4-21 Sample Volume 8mL Shear Rate ($sec^{-1}$) .93N | Spindle SC4-27 Sample Volume 10.5mL Shear Rate ($sec^{-1}$) .34N |
|---|---|---|---|---|---|
| LVDV-IIIU | 1.2-30K | 12-300K | 24-600K | | |
| LVDV-II+Pro | 1.5-30K | 15-300K | 30-600K | Not applicable for historical reasons. However, it is possible to use the above spindle/chamber combinations with any of these instruments. Digital Viscometers/Rheometers will automatically calculate viscosity. Please contact Brookfield or an authorized dealer if you require information on viscosity range. | |
| LVDV-I Prime | 3-10K | 30-100K | 60-200K | | |
| LVDVE | 3-10K | 30-100K | 60-200K | | |
| LVT | 5-10K | 50-100K | 100-200K | | |
| RVDV-IIIU | | | | 20-500K | 100-2.5M |
| RVDV-II+Pro | | | | 25-500K | 125-2.5M |
| RVDV-I Prime | | | | 50-170K | 250-830K |
| RVDVE | | | | 50-170K | 250-830K |
| RVT | | | | 50-100K | 250-500K |
| HADV-IIIU | | | | 40-1M | 200-5M |
| HADV-II+Pro | | | | 50-1M | 250-5M |
| HADV-I Prime | | | | 100-300K | 500-1.7M |
| HADVE | | | | 100-300K | 500-1.7M |
| HAT | | | | 100-200K | 500-1M |
| HBDV-IIIU | | | | 160-4M | 800-20M |
| HBDV-II+Pro | | | | 200-4M | 1K-20M |
| HBDV-I Prime | | | | 400-1.3M | 2K-6.7M |
| HBDVE | | | | 400-1.3M | 2K-6.7M |
| HBT | | | | 400-800K | 2K-4M |

| MODEL | Spindle SC4-28 Sample Volume 11.5mL Shear Rate ($sec^{-1}$) .28N | Spindle SC4-29 Sample Volume 13mL Shear Rate ($sec^{-1}$) .25N | Spindle HT-DIN-81 Sample Volume 7mL Shear Rate ($sec^{-1}$) 1.29N |
|---|---|---|---|
| LVDV-IIIU | | | 1.0-10K |
| LVDV-II+Pro | Not applicable for historical reasons. See note above | | 3.4-10K |
| LVDV-I Prime | | | 3.4-10K |
| LVDVE | | | N/A |
| LVT | | | 5.7-10K |
| RVDV-IIIU | 200-5M | 400-10M | 14.6-10K |
| RVDV-II+Pro | 250-5M | 500-10M | 36.5-10K |
| RVDV-I Prime | 500-1.7M | 1K-3.3M | 36.5-10K |
| RVDVE | 500-1.7M | 1K-3.3M | N/A |
| RVT | 500-1M | 1K-2M | 36.5-10K |
| HADV-IIIU | 400-10M | 800-20M | 29.2-10K |
| HADV-II+Pro | 500-10M | 1K-20M | 73.0-10K |
| HADV-I Prime | 1K-3.3M | 2K-6.7M | 73.0-10K |
| HADVE | 1K-3.3M | 2K-6.7M | N/A |
| HAT | 1K-2M | 2K-4M | 73.0-10K |
| HBDV-IIIU | 1.6K-40M | 3.2K-80M | 116.8-10K |
| HBDV-II+Pro | 2K-40M | 4K-80M | 292.0-10K |
| HBDV-I Prime | 4K-13.3M | 8K-26.7M | 292.0-10K |
| HBDVE | 4K-13.3M | 8K-26.7M | N/A |
| HBT | 4K-8M | 8K-16M | 292.0-10K |

M = 1 million K = 1 thousand N = RPM † Spindle SC4-18 1.32 x 10 (rpm) = 13.2 sec-1 cP = Centipoise mPa•s = milliPascal•seconds
*Optional disposable SC4-27D spindle is available in quantities of 100, Part No. SC4-27D-100. Requires special chuck/closer, Part No. SC4-DSY, for attachment to viscometer.
**The 81 spindle, Part No. HT-DIN-81, works in an HT-2 or HT-2DB chamber.

BROOKFIELD

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