

## Guide to Selecting the Appropriate Rheometer and Spindle

In order to determine which rheometer is best for the sample, the user must first know the viscosity range at which the sample falls under. If the viscosity falls in the range between 15-2,000,000 cPs, the user should select the DV3TLV rheometer. Some common fluids that fall in this viscosity range include inks, oils and solvents. If the viscosity falls in the range between 2,000,000-80,000,00 cPs, the user should select the DV3THA rheometer. Some common fluids that fall in this viscosity range include gels, chocolates, and epoxies. After selecting the appropriate rheometer, the user should then use the table below to select the appropriate spindle.

|                      | DV3TLV   |                      |                  |                      | DV3THA   |                       |                  |
|----------------------|----------|----------------------|------------------|----------------------|----------|-----------------------|------------------|
|                      | Spindles | Viscosity Range [cP] | Sample Size [mL] |                      | Spindles | Viscosity Range [cP]  | Sample Size [mL] |
| Small Sample Adapter | SC4-21   | 2.4-46,865           | 7.1              | Small Sample Adapter | SC4-21   | 2.4-46,865            | 7.1              |
|                      | SC4-27   | 46,865-234,325       | 10.4             |                      | SC4-27   | 46,865-234,325        | 10.4             |
| LV                   | LV1      | 15-20,000            |                  | LV                   | LV1      | 15-20,000             |                  |
|                      | LV2      | 20,000-100,000       |                  |                      | LV2      | 20,000-100,000        |                  |
|                      | LV3      | 100,000-400,000      |                  |                      | LV3      | 100,000-400,000       |                  |
|                      | LV4      | 400,000-2,000,000    |                  |                      | LV4      | 400,000-2,000,000     |                  |
| HA                   | HA1      | 200-40,000           |                  | HA                   | HA1      | 200-40,000            |                  |
|                      | HA2      | 40,000-160,000       |                  |                      | HA2      | 40,000-160,000        |                  |
|                      | HA3      | 160,000-400,000      |                  |                      | HA3      | 160,000-400,000       |                  |
|                      | HA4      | 400,000-800,000      |                  |                      | HA4      | 400,000-800,000       |                  |
|                      | HA5      | 800,000-1,600,000    |                  |                      | HA5      | 800,000-1,600,000     |                  |
|                      | HA6      | 1,600,000-2,000,000  |                  |                      | HA6      | 1,600,000-4,000,000   |                  |
| T-Bar (Helipath)     | TA       | 156-62,500           |                  | T-Bar (Helipath)     | TA       | 4,000-8,000           |                  |
|                      | TB       | 62,500-124,800       |                  |                      | TB       | 8,000-20,000          |                  |
|                      | TC       | 124,800-312,000      |                  |                      | TC       | 20,000-40,000         |                  |
|                      | TD       | 312,000-624,000      |                  |                      | TD       | 40,000-8,000,000      |                  |
|                      | TE       | 624,000-1,500,000    |                  |                      | TE       | 8,000,000-20,000,000  |                  |
|                      | TF       | 1,500,000-2,000,000  |                  |                      | TF       | 20,000,000-40,000,000 |                  |