**Supplemental Table 1**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Device** | **Contrast** | **Estimate** | **SE** | **df** | **Lwr** | **Upr** | **t.ratio** | **p-value** | **Result** |
| 29G TW, SFHIGH | 2.3cP - 5.8cP | -3.93 | 0.61 | 26 | -5.99 | -1.86 | -6.41 | <0.001 | Significant |
| 29G TW, SFHIGH | 2.3cP - 11.8cP | -12.08 | 0.64 | 30 | -14.20 | -9.95 | -18.87 | <0.001 | Significant |
| 29G TW, SFHIGH | 2.3cP - 20.4cP | -24.91 | 0.61 | 26 | -26.97 | -22.84 | -40.63 | <0.001 | Significant |
| 29G TW, SFHIGH | 5.8cP - 11.8cP | -8.15 | 0.63 | 151 | -10.11 | -6.19 | -12.85 | <0.001 | Significant |
| 29G TW, SFHIGH | 5.8cP - 20.4cP | -20.98 | 0.62 | 95 | -22.91 | -19.06 | -34.05 | <0.001 | Significant |
| 29G TW, SFHIGH | 11.8cP - 20.4cP | -12.83 | 0.63 | 220 | -14.75 | -10.91 | -20.51 | <0.001 | Significant |
| 27G STW, SFLOW | 2.3cP - 5.8cP | -2.48 | 0.61 | 26 | -4.55 | -0.42 | -4.05 | 0.009 | Significant |
| 27G STW, SFLOW | 2.3cP - 11.8cP | -6.00 | 0.61 | 26 | -8.06 | -3.94 | -9.80 | <0.001 | Significant |
| 27G STW, SFLOW | 2.3cP - 20.4cP | -12.10 | 0.62 | 12 | -14.45 | -9.74 | -19.63 | <0.001 | Significant |
| 27G STW, SFLOW | 5.8cP - 11.8cP | -3.52 | 0.61 | 93 | -5.44 | -1.60 | -5.73 | <0.001 | Significant |
| 27G STW, SFLOW | 5.8cP - 20.4cP | -9.61 | 0.61 | 26 | -11.68 | -7.55 | -15.68 | <0.001 | Significant |
| 27G STW, SFLOW | 11.8cP - 20.4cP | -6.09 | 0.61 | 26 | -8.16 | -4.03 | -9.95 | <0.001 | Significant |
| 27G STW, SFHIGH | 2.3cP - 5.8cP | -1.98 | 0.61 | 26 | -4.04 | 0.09 | -3.22 | 0.071 | NS |
| 27G STW, SFHIGH | 2.3cP - 11.8cP | -3.91 | 0.61 | 153 | -5.79 | -2.03 | -6.43 | <0.001 | Significant |
| 27G STW, SFHIGH | 2.3cP - 20.4cP | -8.77 | 0.60 | 156 | -10.62 | -6.93 | -14.71 | <0.001 | Significant |
| 27G STW, SFHIGH | 2.3cP - 31cP | -12.36 | 0.61 | 26 | -14.42 | -10.29 | -20.13 | <0.001 | Significant |
| 27G STW, SFHIGH | 2.3cP - 39cP | -15.83 | 0.62 | 100 | -17.76 | -13.90 | -25.56 | <0.001 | Significant |
| 27G STW, SFHIGH | 5.8cP - 11.8cP | -1.93 | 0.61 | 26 | -4.00 | 0.13 | -3.14 | 0.086 | NS |
| 27G STW, SFHIGH | 5.8cP - 20.4cP | -6.79 | 0.60 | 25 | -8.82 | -4.77 | -11.33 | <0.001 | Significant |
| 27G STW, SFHIGH | 5.8cP - 31cP | -10.38 | 0.62 | 12 | -12.73 | -8.02 | -16.84 | <0.001 | Significant |
| 27G STW, SFHIGH | 5.8cP - 39cP | -13.85 | 0.61 | 26 | -15.91 | -11.78 | -22.57 | <0.001 | Significant |
| 27G STW, SFHIGH | 11.8cP - 20.4cP | -4.86 | 0.60 | 110 | -6.73 | -2.99 | -8.09 | <0.001 | Significant |
| 27G STW, SFHIGH | 11.8cP - 31cP | -8.44 | 0.61 | 26 | -10.51 | -6.38 | -13.73 | <0.001 | Significant |
| 27G STW, SFHIGH | 11.8cP - 39cP | -11.92 | 0.62 | 101 | -13.85 | -9.98 | -19.21 | <0.001 | Significant |
| 27G STW, SFHIGH | 20.4cP - 31cP | -3.58 | 0.60 | 25 | -5.60 | -1.56 | -5.97 | <0.001 | Significant |
| 27G STW, SFHIGH | 20.4cP - 39cP | -7.05 | 0.59 | 213 | -8.86 | -5.25 | -12.04 | <0.001 | Significant |
| 27G STW, SFHIGH | 31cP - 39cP | -3.47 | 0.61 | 26 | -5.54 | -1.41 | -5.66 | <0.001 | Significant |
| 27G UTW, SFHIGH | 5.8cP - 11.8cP | -1.23 | 0.57 | 43 | -3.08 | 0.61 | -2.16 | 0.766 | NS |
| 27G UTW, SFHIGH | 5.8cP - 20.4cP | -4.99 | 0.62 | 96 | -6.91 | -3.06 | -8.09 | <0.001 | Significant |
| 27G UTW, SFHIGH | 5.8cP - 31cP | -6.98 | 0.61 | 94 | -8.90 | -5.06 | -11.34 | <0.001 | Significant |
| 27G UTW, SFHIGH | 5.8cP - 39cP | -10.71 | 0.62 | 96 | -12.64 | -8.79 | -17.37 | <0.001 | Significant |
| 27G UTW, SFHIGH | 5.8cP - 51cP | -12.47 | 0.60 | 34 | -14.43 | -10.52 | -20.93 | <0.001 | Significant |
| 27G UTW, SFHIGH | 11.8cP - 20.4cP | -3.76 | 0.57 | 68 | -5.55 | -1.96 | -6.60 | <0.001 | Significant |
| 27G UTW, SFHIGH | 11.8cP - 31cP | -5.74 | 0.57 | 44 | -7.59 | -3.89 | -10.02 | <0.001 | Significant |
| 27G UTW, SFHIGH | 11.8cP - 39cP | -9.48 | 0.57 | 68 | -11.28 | -7.68 | -16.65 | <0.001 | Significant |
| 27G UTW, SFHIGH | 11.8cP - 51cP | -11.24 | 0.55 | 18 | -13.20 | -9.29 | -20.28 | <0.001 | Significant |
| 27G UTW, SFHIGH | 20.4cP - 31cP | -1.99 | 0.61 | 151 | -3.86 | -0.11 | -3.27 | 0.028 | Significant |
| 27G UTW, SFHIGH | 20.4cP - 39cP | -5.73 | 0.58 | 219 | -7.52 | -3.93 | -9.80 | <0.001 | Significant |
| 27G UTW, SFHIGH | 20.4cP - 51cP | -7.49 | 0.59 | 41 | -9.41 | -5.56 | -12.59 | <0.001 | Significant |
| 27G UTW, SFHIGH | 31cP - 39cP | -3.74 | 0.61 | 151 | -5.62 | -1.86 | -6.15 | <0.001 | Significant |
| 27G UTW, SFHIGH | 31cP - 51cP | -5.50 | 0.59 | 34 | -7.45 | -3.55 | -9.24 | <0.001 | Significant |
| 27G UTW, SFHIGH | 39cP - 51cP | -1.76 | 0.59 | 41 | -3.69 | 0.17 | -2.96 | 0.107 | NS |

**Supplemental Table 1:** Contrast Based Multiple Comparison for Delivery Time (s) between Viscosity within Device  
DF = degrees of freedom; LWR = lower; NS = nonsignificant; SE = standard error; UPR = upper

**Supplemental Table 2**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Viscosity** | **Contrast** | **Estimate** | **SE** | **df** | **Lwr** | **Upr** | **t.ratio** | **p-value** | **Result** |
| 2.3cP | 29G TW, SFHIGH - 27G STW, SFLOW | 1.75 | 0.62 | 12 | -0.19 | 3.69 | 2.85 | 0.088 | NS |
| 2.3cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 3.76 | 0.61 | 26 | 2.01 | 5.52 | 6.13 | <0.001 | Significant |
| 2.3cP | 27G STW, SFLOW - 27G STW, SFHIGH | 2.01 | 0.61 | 26 | 0.26 | 3.76 | 3.27 | 0.018 | Significant |
| 5.8cP | 29G TW, SFHIGH - 27G STW, SFLOW | 3.20 | 0.62 | 95 | 1.54 | 4.86 | 5.19 | <0.001 | Significant |
| 5.8cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 5.71 | 0.61 | 26 | 3.96 | 7.46 | 9.33 | <0.001 | Significant |
| 5.8cP | 29G TW, SFHIGH - 27G UTW, SFHIGH | 7.03 | 0.61 | 147 | 5.41 | 8.65 | 11.62 | <0.001 | Significant |
| 5.8cP | 27G STW, SFLOW - 27G STW, SFHIGH | 2.51 | 0.61 | 26 | 0.76 | 4.26 | 4.10 | 0.002 | Significant |
| 5.8cP | 27G STW, SFLOW - 27G UTW, SFHIGH | 3.84 | 0.60 | 214 | 2.24 | 5.43 | 6.41 | <0.001 | Significant |
| 5.8cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 1.32 | 0.61 | 26 | -0.43 | 3.07 | 2.16 | 0.241 | NS |
| 11.8cP | 29G TW, SFHIGH - 27G STW, SFLOW | 7.83 | 0.64 | 104 | 6.10 | 9.56 | 12.19 | <0.001 | Significant |
| 11.8cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 11.93 | 0.63 | 174 | 10.24 | 13.62 | 18.81 | <0.001 | Significant |
| 11.8cP | 29G TW, SFHIGH - 27G UTW, SFHIGH | 13.95 | 0.60 | 51 | 12.30 | 15.60 | 23.21 | <0.001 | Significant |
| 11.8cP | 27G STW, SFLOW - 27G STW, SFHIGH | 4.10 | 0.62 | 97 | 2.44 | 5.76 | 6.64 | <0.001 | Significant |
| 11.8cP | 27G STW, SFLOW - 27G UTW, SFHIGH | 6.12 | 0.57 | 44 | 4.54 | 7.70 | 10.68 | <0.001 | Significant |
| 11.8cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 2.02 | 0.57 | 67 | 0.48 | 3.57 | 3.55 | 0.004 | Significant |
| 20.4cP | 29G TW, SFHIGH - 27G STW, SFLOW | 14.57 | 0.61 | 26 | 12.82 | 16.32 | 23.76 | <0.001 | Significant |
| 20.4cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 19.90 | 0.60 | 110 | 18.28 | 21.51 | 33.12 | <0.001 | Significant |
| 20.4cP | 29G TW, SFHIGH - 27G UTW, SFHIGH | 23.03 | 0.61 | 148 | 21.40 | 24.65 | 37.98 | <0.001 | Significant |
| 20.4cP | 27G STW, SFLOW - 27G STW, SFHIGH | 5.33 | 0.60 | 25 | 3.62 | 7.05 | 8.89 | <0.001 | Significant |
| 20.4cP | 27G STW, SFLOW - 27G UTW, SFHIGH | 8.46 | 0.61 | 26 | 6.71 | 10.21 | 13.77 | <0.001 | Significant |
| 20.4cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 3.13 | 0.60 | 111 | 1.51 | 4.75 | 5.19 | <0.001 | Significant |
| 31cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 4.72 | 0.61 | 26 | 2.97 | 6.47 | 7.71 | <0.001 | Significant |
| 39cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 4.46 | 0.62 | 97 | 2.79 | 6.12 | 7.22 | <0.001 | Significant |

**Supplemental Table 2:** Contrast Based Multiple Comparison for Delivery Time (s) between Device within Viscosity  
DF = degrees of freedom; LWR = lower; NS = nonsignificant; SE = standard error; UPR = upper

**Supplemental Table 3**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Device** | **Contrast** | **Estimate** | **SE** | **df** | **Lwr** | **Upr** | **t.ratio** | **p-value** | **Result** |
| 29G TW, SFHIGH | 2.3cP - 5.8cP | 0.52 | 0.38 | 13 | -0.93 | 1.96 | 1.35 | 1 | NS |
| 29G TW, SFHIGH | 2.3cP - 11.8cP | 0.60 | 0.39 | 14 | -0.85 | 2.05 | 1.54 | 1 | NS |
| 29G TW, SFHIGH | 2.3cP - 20.4cP | 0.55 | 0.38 | 13 | -0.89 | 1.99 | 1.44 | 1 | NS |
| 29G TW, SFHIGH | 5.8cP - 11.8cP | 0.08 | 0.29 | 202 | -0.81 | 0.98 | 0.29 | 1 | NS |
| 29G TW, SFHIGH | 5.8cP - 20.4cP | 0.03 | 0.29 | 174 | -0.86 | 0.93 | 0.12 | 1 | NS |
| 29G TW, SFHIGH | 11.8cP - 20.4cP | -0.05 | 0.27 | 225 | -0.87 | 0.77 | -0.18 | 1 | NS |
| 27G STW, SFLOW | 2.3cP - 5.8cP | 0.83 | 0.38 | 13 | -0.61 | 2.27 | 2.16 | 1 | NS |
| 27G STW, SFLOW | 2.3cP - 11.8cP | 0.24 | 0.38 | 13 | -1.21 | 1.68 | 0.61 | 1 | NS |
| 27G STW, SFLOW | 2.3cP - 20.4cP | 0.17 | 0.45 | 8 | -1.78 | 2.11 | 0.37 | 1 | NS |
| 27G STW, SFLOW | 5.8cP - 11.8cP | -0.59 | 0.29 | 161 | -1.50 | 0.31 | -2.02 | 0.95 | NS |
| 27G STW, SFLOW | 5.8cP - 20.4cP | -0.66 | 0.38 | 13 | -2.10 | 0.78 | -1.73 | 1 | NS |
| 27G STW, SFLOW | 11.8cP - 20.4cP | -0.07 | 0.38 | 13 | -1.51 | 1.38 | -0.18 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 5.8cP | -0.11 | 0.38 | 13 | -1.54 | 1.33 | -0.28 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 11.8cP | 0.24 | 0.27 | 212 | -0.60 | 1.08 | 0.89 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 20.4cP | 0.84 | 0.27 | 215 | 0.02 | 1.66 | 3.16 | 0.038 | Significant |
| 27G STW, SFHIGH | 2.3cP - 31cP | -0.25 | 0.38 | 13 | -1.68 | 1.19 | -0.65 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 39cP | 0.63 | 0.29 | 188 | -0.25 | 1.51 | 2.20 | 0.616 | NS |
| 27G STW, SFHIGH | 5.8cP - 11.8cP | 0.35 | 0.38 | 13 | -1.08 | 1.78 | 0.92 | 1 | NS |
| 27G STW, SFHIGH | 5.8cP - 20.4cP | 0.95 | 0.38 | 12 | -0.49 | 2.39 | 2.51 | 0.565 | NS |
| 27G STW, SFHIGH | 5.8cP - 31cP | -0.14 | 0.45 | 8 | -2.08 | 1.80 | -0.32 | 1 | NS |
| 27G STW, SFHIGH | 5.8cP - 39cP | 0.73 | 0.38 | 13 | -0.71 | 2.17 | 1.92 | 1 | NS |
| 27G STW, SFHIGH | 11.8cP - 20.4cP | 0.60 | 0.28 | 182 | -0.26 | 1.46 | 2.14 | 0.706 | NS |
| 27G STW, SFHIGH | 11.8cP - 31cP | -0.49 | 0.38 | 13 | -1.92 | 0.94 | -1.29 | 1 | NS |
| 27G STW, SFHIGH | 11.8cP - 39cP | 0.39 | 0.28 | 193 | -0.49 | 1.26 | 1.36 | 1 | NS |
| 27G STW, SFHIGH | 20.4cP - 31cP | -1.09 | 0.38 | 12 | -2.53 | 0.35 | -2.88 | 0.28 | NS |
| 27G STW, SFHIGH | 20.4cP - 39cP | -0.21 | 0.25 | 226 | -0.99 | 0.56 | -0.85 | 1 | NS |
| 27G STW, SFHIGH | 31cP - 39cP | 0.88 | 0.38 | 13 | -0.56 | 2.32 | 2.29 | 0.829 | NS |
| 27G UTW, SFHIGH | 5.8cP - 11.8cP | -0.13 | 0.31 | 56 | -1.13 | 0.87 | -0.42 | 1 | NS |
| 27G UTW, SFHIGH | 5.8cP - 20.4cP | 0.47 | 0.29 | 174 | -0.42 | 1.36 | 1.62 | 1 | NS |
| 27G UTW, SFHIGH | 5.8cP - 31cP | -0.05 | 0.29 | 166 | -0.95 | 0.85 | -0.16 | 1 | NS |
| 27G UTW, SFHIGH | 5.8cP - 39cP | 0.15 | 0.29 | 174 | -0.74 | 1.04 | 0.52 | 1 | NS |
| 27G UTW, SFHIGH | 5.8cP - 51cP | -0.18 | 0.34 | 33 | -1.32 | 0.95 | -0.53 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 20.4cP | 0.60 | 0.29 | 94 | -0.30 | 1.50 | 2.08 | 0.847 | NS |
| 27G UTW, SFHIGH | 11.8cP - 31cP | 0.08 | 0.31 | 61 | -0.90 | 1.07 | 0.26 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 39cP | 0.28 | 0.29 | 94 | -0.62 | 1.18 | 0.98 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 51cP | -0.05 | 0.35 | 23 | -1.26 | 1.16 | -0.15 | 1 | NS |
| 27G UTW, SFHIGH | 20.4cP - 31cP | -0.52 | 0.27 | 209 | -1.36 | 0.33 | -1.89 | 1 | NS |
| 27G UTW, SFHIGH | 20.4cP - 39cP | -0.32 | 0.25 | 218 | -1.08 | 0.44 | -1.28 | 1 | NS |
| 27G UTW, SFHIGH | 20.4cP - 51cP | -0.65 | 0.33 | 38 | -1.74 | 0.44 | -1.95 | 1 | NS |
| 27G UTW, SFHIGH | 31cP - 39cP | 0.20 | 0.27 | 209 | -0.64 | 1.04 | 0.73 | 1 | NS |
| 27G UTW, SFHIGH | 31cP - 51cP | -0.14 | 0.35 | 32 | -1.28 | 1.01 | -0.39 | 1 | NS |
| 27G UTW, SFHIGH | 39cP - 51cP | -0.34 | 0.33 | 38 | -1.42 | 0.75 | -1.01 | 1 | NS |

**Supplemental Table 3:** Contrast Based Multiple Comparison for Depot Location Top (mm) between Viscosity within Device

DF = degrees of freedom; LWR = lower; NS = nonsignificant; SE = standard error; UPR = upper

**Supplemental Table 4**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Device** | **Contrast** | **Estimate** | **SE** | **df** | **Lwr** | **Upr** | **t.ratio** | **p-value** | **Result** |
| 29G TW, SFHIGH | 2.3cP - 5.8cP | 2.62 | 0.80 | 17 | -0.21 | 5.46 | 3.30 | 0.089 | NS |
| 29G TW, SFHIGH | 2.3cP - 11.8cP | 2.40 | 0.82 | 19 | -0.48 | 5.27 | 2.92 | 0.184 | NS |
| 29G TW, SFHIGH | 2.3cP - 20.4cP | 2.21 | 0.80 | 17 | -0.62 | 5.03 | 2.77 | 0.27 | NS |
| 29G TW, SFHIGH | 5.8cP - 11.8cP | -0.23 | 0.72 | 172 | -2.45 | 2.00 | -0.32 | 1 | NS |
| 29G TW, SFHIGH | 5.8cP - 20.4cP | -0.42 | 0.71 | 127 | -2.63 | 1.80 | -0.59 | 1 | NS |
| 29G TW, SFHIGH | 11.8cP - 20.4cP | -0.19 | 0.69 | 226 | -2.30 | 1.92 | -0.28 | 1 | NS |
| 27G STW, SFLOW | 2.3cP - 5.8cP | 2.89 | 0.80 | 17 | 0.06 | 5.72 | 3.63 | 0.042 | Significant |
| 27G STW, SFLOW | 2.3cP - 11.8cP | 1.23 | 0.80 | 17 | -1.60 | 4.07 | 1.55 | 1 | NS |
| 27G STW, SFLOW | 2.3cP - 20.4cP | 1.36 | 0.87 | 9 | -2.25 | 4.96 | 1.57 | 1 | NS |
| 27G STW, SFLOW | 5.8cP - 11.8cP | -1.66 | 0.72 | 115 | -3.89 | 0.58 | -2.31 | 0.481 | NS |
| 27G STW, SFLOW | 5.8cP - 20.4cP | -1.53 | 0.80 | 17 | -4.36 | 1.30 | -1.92 | 1 | NS |
| 27G STW, SFLOW | 11.8cP - 20.4cP | 0.13 | 0.80 | 17 | -2.71 | 2.96 | 0.16 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 5.8cP | -1.60 | 0.79 | 17 | -4.42 | 1.22 | -2.02 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 11.8cP | 0.29 | 0.68 | 186 | -1.82 | 2.40 | 0.43 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 20.4cP | 0.77 | 0.67 | 191 | -1.29 | 2.84 | 1.15 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 31cP | -0.77 | 0.79 | 17 | -3.59 | 2.05 | -0.97 | 1 | NS |
| 27G STW, SFHIGH | 2.3cP - 39cP | 0.07 | 0.71 | 142 | -2.13 | 2.26 | 0.10 | 1 | NS |
| 27G STW, SFHIGH | 5.8cP - 11.8cP | 1.89 | 0.79 | 18 | -0.92 | 4.70 | 2.39 | 0.594 | NS |
| 27G STW, SFHIGH | 5.8cP - 20.4cP | 2.37 | 0.78 | 16 | -0.42 | 5.17 | 3.04 | 0.159 | NS |
| 27G STW, SFHIGH | 5.8cP - 31cP | 0.83 | 0.87 | 9 | -2.77 | 4.44 | 0.96 | 1 | NS |
| 27G STW, SFHIGH | 5.8cP - 39cP | 1.67 | 0.79 | 17 | -1.15 | 4.49 | 2.10 | 1 | NS |
| 27G STW, SFHIGH | 11.8cP - 20.4cP | 0.48 | 0.69 | 140 | -1.66 | 2.63 | 0.69 | 1 | NS |
| 27G STW, SFHIGH | 11.8cP - 31cP | -1.06 | 0.79 | 18 | -3.87 | 1.75 | -1.34 | 1 | NS |
| 27G STW, SFHIGH | 11.8cP - 39cP | -0.23 | 0.71 | 149 | -2.41 | 1.96 | -0.32 | 1 | NS |
| 27G STW, SFHIGH | 20.4cP - 31cP | -1.54 | 0.78 | 16 | -4.34 | 1.26 | -1.97 | 1 | NS |
| 27G STW, SFHIGH | 20.4cP - 39cP | -0.71 | 0.65 | 224 | -2.69 | 1.28 | -1.09 | 1 | NS |
| 27G STW, SFHIGH | 31cP - 39cP | 0.84 | 0.79 | 17 | -1.99 | 3.66 | 1.05 | 1 | NS |
| 27G UTW, SFHIGH | 5.8cP - 11.8cP | 1.32 | 0.71 | 42 | -0.98 | 3.62 | 1.86 | 1 | NS |
| 27G UTW, SFHIGH | 5.8cP - 20.4cP | 1.58 | 0.71 | 129 | -0.64 | 3.79 | 2.21 | 0.607 | NS |
| 27G UTW, SFHIGH | 5.8cP - 31cP | 1.74 | 0.72 | 120 | -0.48 | 3.97 | 2.43 | 0.348 | NS |
| 27G UTW, SFHIGH | 5.8cP - 39cP | 2.20 | 0.71 | 129 | -0.01 | 4.41 | 3.09 | 0.052 | NS |
| 27G UTW, SFHIGH | 5.8cP - 51cP | 1.54 | 0.76 | 30 | -0.97 | 4.05 | 2.04 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 20.4cP | 0.25 | 0.68 | 73 | -1.89 | 2.40 | 0.37 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 31cP | 0.42 | 0.71 | 45 | -1.87 | 2.70 | 0.59 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 39cP | 0.88 | 0.68 | 73 | -1.26 | 3.02 | 1.29 | 1 | NS |
| 27G UTW, SFHIGH | 11.8cP - 51cP | 0.22 | 0.75 | 18 | -2.42 | 2.86 | 0.29 | 1 | NS |
| 27G UTW, SFHIGH | 20.4cP - 31cP | 0.16 | 0.69 | 182 | -1.95 | 2.28 | 0.24 | 1 | NS |
| 27G UTW, SFHIGH | 20.4cP - 39cP | 0.62 | 0.64 | 218 | -1.33 | 2.58 | 0.98 | 1 | NS |
| 27G UTW, SFHIGH | 20.4cP - 51cP | -0.03 | 0.74 | 35 | -2.47 | 2.40 | -0.05 | 1 | NS |
| 27G UTW, SFHIGH | 31cP - 39cP | 0.46 | 0.69 | 182 | -1.65 | 2.57 | 0.67 | 1 | NS |
| 27G UTW, SFHIGH | 31cP - 51cP | -0.20 | 0.76 | 29 | -2.72 | 2.32 | -0.26 | 1 | NS |
| 27G UTW, SFHIGH | 39cP - 51cP | -0.66 | 0.74 | 35 | -3.09 | 1.77 | -0.89 | 1 | NS |

**Supplemental Table 4:** Contrast Based Multiple Comparison for Depot Location Bottom (mm) between Device within Viscosity  
DF = degrees of freedom; LWR = lower; NS = nonsignificant; SE = standard error; UPR = upper

**Supplemental Table 5**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Viscosity** | **Contrast** | **Estimate** | **SE** | **df** | **Lwr** | **Upr** | **t.ratio** | **p-value** | **Result** |
| 2.3cP | 29G TW, SFHIGH - 27G STW, SFLOW | 0.47 | 0.87 | 9 | -2.43 | 3.38 | 0.55 | 1 | NS |
| 2.3cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 2.68 | 0.79 | 17 | 0.31 | 5.04 | 3.37 | 0.021 | Significant |
| 2.3cP | 27G STW, SFLOW - 27G STW, SFHIGH | 2.20 | 0.79 | 17 | -0.16 | 4.56 | 2.77 | 0.077 | NS |
| 5.8cP | 29G TW, SFHIGH - 27G STW, SFLOW | 0.74 | 0.71 | 127 | -1.18 | 2.66 | 1.04 | 1 | NS |
| 5.8cP | 29G TW, SFHIGH - 27G STW, SFHIGH | -1.55 | 0.80 | 17 | -3.92 | 0.83 | -1.95 | 0.41 | NS |
| 5.8cP | 29G TW, SFHIGH - 27G UTW, SFHIGH | -0.87 | 0.69 | 168 | -2.71 | 0.98 | -1.26 | 1 | NS |
| 5.8cP | 27G STW, SFLOW - 27G STW, SFHIGH | -2.29 | 0.80 | 17 | -4.66 | 0.08 | -2.88 | 0.062 | NS |
| 5.8cP | 27G STW, SFLOW - 27G UTW, SFHIGH | -1.61 | 0.66 | 225 | -3.36 | 0.14 | -2.44 | 0.092 | NS |
| 5.8cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 0.68 | 0.80 | 17 | -1.69 | 3.06 | 0.86 | 1 | NS |
| 11.8cP | 29G TW, SFHIGH - 27G STW, SFLOW | -0.69 | 0.75 | 128 | -2.69 | 1.31 | -0.92 | 1 | NS |
| 11.8cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 0.57 | 0.71 | 200 | -1.32 | 2.46 | 0.81 | 1 | NS |
| 11.8cP | 29G TW, SFHIGH - 27G UTW, SFHIGH | 0.69 | 0.74 | 49 | -1.35 | 2.72 | 0.93 | 1 | NS |
| 11.8cP | 27G STW, SFLOW - 27G STW, SFHIGH | 1.26 | 0.71 | 132 | -0.65 | 3.17 | 1.77 | 0.474 | NS |
| 11.8cP | 27G STW, SFLOW - 27G UTW, SFHIGH | 1.37 | 0.71 | 45 | -0.58 | 3.33 | 1.94 | 0.355 | NS |
| 11.8cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 0.11 | 0.68 | 71 | -1.74 | 1.96 | 0.17 | 1 | NS |
| 20.4cP | 29G TW, SFHIGH - 27G STW, SFLOW | -0.37 | 0.80 | 17 | -2.74 | 2.00 | -0.47 | 1 | NS |
| 20.4cP | 29G TW, SFHIGH - 27G STW, SFHIGH | 1.24 | 0.69 | 139 | -0.61 | 3.10 | 1.79 | 0.449 | NS |
| 20.4cP | 29G TW, SFHIGH - 27G UTW, SFHIGH | 1.13 | 0.69 | 173 | -0.71 | 2.97 | 1.64 | 0.616 | NS |
| 20.4cP | 27G STW, SFLOW - 27G STW, SFHIGH | 1.62 | 0.78 | 16 | -0.72 | 3.96 | 2.07 | 0.327 | NS |
| 20.4cP | 27G STW, SFLOW - 27G UTW, SFHIGH | 1.50 | 0.79 | 18 | -0.86 | 3.86 | 1.89 | 0.451 | NS |
| 20.4cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | -0.11 | 0.69 | 148 | -1.96 | 1.73 | -0.17 | 1 | NS |
| 31cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 1.59 | 0.80 | 17 | -0.78 | 3.97 | 2.00 | 0.371 | NS |
| 39cP | 27G STW, SFHIGH - 27G UTW, SFHIGH | 1.22 | 0.71 | 133 | -0.69 | 3.13 | 1.71 | 0.543 | NS |

**Supplementary Table 5:** Contrast Based Multiple Comparison for Depot Location Bottom (mm) between Device within Viscosity

DF = degrees of freedom; LWR = lower; NS = nonsignificant; SE = standard error; UPR = upper