

# Application Data: Chemical Industry

## Computrac® MAX® 1000/2000XL Moisture/Solids Analyzers

### Surfactants and Detergents

| MATERIAL                       | RESULT     | COMPUTRAC®    | STATISTIC          | OVEN                    |
|--------------------------------|------------|---------------|--------------------|-------------------------|
| Alkyl Polyglycoside Surfactant | % Solids   | 69.042        | Mean               | 69.193                  |
|                                |            | 0.021         | Standard Deviation | 0.080                   |
|                                |            | 5 minutes     | Test Times         | 2 hours                 |
| Bath Soap                      | % Moisture | 12.654        | Mean               | 12.664                  |
|                                |            | 0.075         | Standard Deviation | 0.078                   |
|                                |            | 8 – 9 minutes | Test Times         | 18 hours                |
| Citrus Cleaner                 | % Solids   | 2.079         | Mean               | 1.951                   |
|                                |            | 0.043         | Standard Deviation | 0.050                   |
|                                |            | 6 minutes     | Test Times         | 30 minutes              |
| Cleaning Solution              | % Solids   | 0.026         | Mean               | 0.029                   |
|                                |            | 0.001         | Standard Deviation | 0.001                   |
|                                |            | 32 minutes    | Test Times         | To Constant Weight      |
| Detergents/Soaps               | % Solids   | 34.353        | Mean               | ~34.000                 |
|                                |            | 0.347         | Standard Deviation | Customer provided value |
|                                |            | 5 minutes     | Test Times         |                         |
| Dishwasher Detergent, Generic  | % Moisture | 2.218         | Mean               | 2.267                   |
|                                |            | 0.092         | Standard Deviation | 0.015                   |
|                                |            | 6 – 7 minutes | Test Times         | 2 hours                 |
| Liquid Detergent               | % Solids   | 8.048         | Mean               | 7.952                   |
|                                |            | 0.043         | Standard Deviation | 0.019                   |
|                                |            | 7 – 8 minutes | Test Times         | 1 hour                  |
| Powdered Laundry Detergent     | % Moisture | 6.312         | Mean               | 6.331                   |
|                                |            | 0.059         | Standard Deviation | 0.770                   |
|                                |            | 3 minutes     | Test Times         | 4 hours                 |
| Surfactant                     | % Solids   | 1.482         | Mean               | 1.501                   |
|                                |            | 0.035         | Standard Deviation | 0.014                   |
|                                |            | 2 – 3 minutes | Test Times         | (Hot plate)             |
| Surfactant                     | % Solids   | 75.132        | Mean               | 75.401                  |
|                                |            | 0.146         | Standard Deviation | 0.165                   |
|                                |            | 3 minutes     | Test Times         | 2 hours                 |
| TriCalcium Phosphate           | % Moisture | 1.723         | Mean               | 1.739                   |
|                                |            | 0.033         | Standard Deviation | 0.032                   |
|                                |            | 4 minutes     | Test Times         | 30 minutes              |
| Zinc Sterate                   | % Moisture | 0.225         | Mean               | 0.228                   |
|                                |            | 0.002         | Standard Deviation | 0.011                   |
|                                |            | 3 minutes     | Test Times         | 2 hours                 |



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