**Application Questionnaire**

Our laboratory testing is a cooperative process where we strive to produce **unprecedented results** with your product using the most optimal configuration of our patented modular BEE homogenizing cell. Please complete this questionnaire fully so we can develop a customized test plan for your application.

**IMPORTANT NOTE:** Please include an MSDS (Material Safety Data Sheet) for all materials listed. We cannot process any materials until MSDS sheets are received and accepted in writing by BEEI safety management.

***Your Organization***

|  |  |  |  |
| --- | --- | --- | --- |
| Name: |  | | |
| Title: |  | | |
| Company: |  | | |
| Address: |  | | |
| City, State, ZIP |  | | |
| Telephone: |  | Fax: |  |
| E-mail: |  | Web: |  |

***About Your Application***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description: | | | | |
| □ Emulsion | Dispersion | □ Cell Disruption | □ Micro encapsulation | □ Other \_\_\_\_\_\_\_\_\_\_\_ |
| Test Objective | | | | |
| Results that would indicate success: | | | | |
| What is your industry | | | | |
| What production rates would you potentially reach | | | | |
| Is this a sanitary application? □ Yes □ No Standards: | | | | |
| Is the use of less emulsifying agent / surfactant one of the goals? □ Yes □ No Comments: | | | | |

***Product Characteristics Before Processing***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nature of particles: |  | | | |
| Hardness: |  | | | |
| Continuous Phase: | □ Water | | □ Oil | □ Solvent |
| □ Other: | | | |
| Dispersed Phase:  (Check all that apply and characterize) | □ Water | | □ Oil | □ Solvent |
| □ Abrasive | | □ Hard | □ Powder |
| □ Viscous | | □ Elastic | □ Fibrous |
| Percent Emulsifying Agent / Surfactant: | | | | |
| Describe any specific ingredients or characteristics which may affect processing: | |  | | |

***Processing Conditions***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| MAXIMUM Processing Temperature: | | | |  | | |
| MINIMUM Processing Temperature: | | | |  | | |
| Concerns: |  | | | | | |
| Check all that apply to the materials in your product and describe: | | | | | | |
| □ Hazardous | | | □ Hard to clean | | | □ Staining |
| □ Irritating to skin | | | □ Flammable | | | □ Toxic |
| □ Corrosive (note pH) | | | □ Other | | | |
| Recommended clean-up: | | | | | | |
| □ Water | □ Solvent | □ Soap | | | □ Other details: | |

***Particle Size***

|  |  |  |  |
| --- | --- | --- | --- |
|  | D10 | D50 | D90 |
| Initial average particle size: |  |  |  |
| Target particle size: |  |  |  |
| Target distribution: |  |  |  |

***Measuring Product Quality***

|  |
| --- |
| How do you currently measure product quality? (Check all that apply)  □ Particle Size Analyzer □ Microscope □ Color  □ Viscosity □ Filtration □ Shelf test  □ Other (describe) |

***Current Process Information***

|  |  |
| --- | --- |
| How has the product previously been processed? (Check all that apply and note the type in the space provided) | |
| □ Agitator \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ Ball Mill\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  □ Colloid Mill\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ Chemical Solution\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  □ Filtration\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ High Shear Mixer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  □ Homogenization\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ Other High Pressure Homogenizer\_\_\_\_\_\_\_\_\_\_\_\_\_  □ Agitator\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ None  □ Ultrasonic\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ Other (describe)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Flow Rate, L/min: |  |
| Operating Temperature, □ °C □ °F: |  |
| Operating Pressure, □ PSI □ bar: |  |
| Number of passes: |  |
| Problems with current process: | |

We look forward to being of service!