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| Data Sheet No.**Centrifuge Equipment** |
| **No.** | **Question** | **Reply** |
| 1 | Suspension (emulsion) |  |
| 2 | Concentration: (S:L)- for two-phase mixtures | Solid phase, weight, % \_\_\_\_ vol.% \_\_\_\_ Liquid phase, weight, % \_\_\_\_ vol.% \_\_\_\_ |
| (S:L light: L heavy)–for three phase mixtures;S-solid phase; L light liquid phase (oil); L heavy -heavy liquid phase (water). | Solid phase, weight,% \_\_\_\_ vol.% \_\_\_\_ Light liquid phase, weight,% \_\_\_\_ vol.% \_\_\_\_Heavy liquid phase, weight,% \_\_\_\_ vol.% \_\_\_\_ |
| 3 | Suspension temperature when entering centrifuge |  |
| 4 | Corrosive properties of the centrifuged product. рН value. Material resistant in the processed medium. |  |
| 5 | Toxicity, fire risk, explosion hazard |  |
| 6 | Description, chemical composition of the solid phase |  |
| Specific gravity of the solid phase, kg/m 3 |  |
| Granulometric composition of the solid phase: | \_\_\_\_\_\_\_\_%\_\_\_\_\_\_\_\_micron;\_\_\_\_\_\_\_\_%\_\_\_\_\_\_\_\_micron;\_\_\_\_\_\_\_\_%\_\_\_\_\_\_\_\_micron;\_\_\_\_\_\_\_\_%\_\_\_\_\_\_\_\_micron; |
| Average particle size: | \_\_\_\_\_\_\_\_micron; |
| The presence of the insoluble impurities(amount, particle size). |  |
| Solid phase particle shape (e.g. round, amorphous) |  |
| Type of the solid substance (fibrous, crystalline, sticky, smearing, carbonizing properties, thixotropic) |  |
| Cake abrasive properties |  |
| Time of solid particles settling in measuring cup | \_\_\_\_\_\_\_\_\_hours |
| 7 | Characteristics of the liquid phase  | For two phase mixtures | For three phase mixtures |
| Light | Heavy |
| Description, chemical composition of the liquid phase  |  |  |  |
| Liquid phase density, kg/m 3 |  |  |  |
| Liquid phase viscosity (at working temperature) |  |  |  |
| The tendency of the liquid phase to foaming, crystallization, the presence of volatile substances, the possibility of its contact with air |  |  |  |

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| **Required operating factors and conditions of centrifuge** |
| **No.** | **Question** | **Reply** |
| 8 | Centrifuges service  |  |
| 9 | Required performance: |  |
| Performance per day | \_\_\_\_\_\_\_m3/day\_\_\_\_\_\_\_\_kg, cake/day |
| Performance per hour | \_\_\_\_\_\_\_m3/h\_\_\_\_\_\_\_\_kg, cake/h |
| Operating hours per day | \_\_\_\_\_\_\_\_h/day |
| 10 | Centrifuge operating duty  | \_\_\_\_continuous;\_\_\_periodic |
| 11 | Required final moisture of the cake, weight % |  |
| 12 | Allowable content of the solid phase, weight % | In light phase \_\_\_\_\_ In heavy phase\_\_\_\_\_ |
| 13 | Allowable content of the heavy phase in the light phase, weight % |  |
| 14 | Allowable content of the light phase in the heavy phase, weight % |  |
| 15 | Necessity to flush the cake and separate removal of flushing liquid, its characteristics |  |
| 16 | Acceptability to crush the solid phase during centrifugation |  |
| 17 | Description of the cake crystals solvent and its application for the sieves surfaces regeneration |  |
| 18 | Desired type of the centrifuge as per catalog  |  |
| 19 | Necessity to heat or cool, to collect gases, vapors during centrifugation |  |
| 20 | The nature of the indoor environment where the centrifuges will be installed: humidity, dustiness, presence of gases and vapors, temperature, class as per Electrical Installation Code |  |
| 21 | Requirements to motor version (open, protected, explosion proof), electric line voltage |  |
| 22 | Indoor centrifuge location (drawing is preferable) specifying the centrifuge power supply and the unloading of the processed products |  |
| **Existing Methods of Processing the Specified Suspension (Emulsion)** |
| 23 | Types of equipment and its parameters: centrifuge diameter and speed, filtration surface and pressure, area for settlers |  |
| 24 | Quantitative and qualitative operating parameters: performance, cycle duration as per operations, final humidity of the cake, degree of centrate clarification, energy consumption per the product unit weight, settling rate in gravity field.  |  |
| 25 | Characteristics of the used underlay and working sieves, fabrics: mesh size of sieves, material, type of fabric |  |

The date sheet shall be completed in full, if some data is unknown put down the word “unknown” in the appropriate column.

Customer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tel./fax:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Е.mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Surname (person in charge)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_