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| **Phase 2 Supplement Specification – Page 1 of 2** (updated November, 2018)**Fish meal option** |
| Name: Address:  Phone: Fax: Date: Date Needed:  | Product name: Phase 2 Supplement (350 lb/ton)  Quantity, lb Package size, lbUse: 350 lb of supplement should be added with 540 lb soybean meal and 1110 lb of corn Price desired (circle one) $/ton FOB $/ton Delivered |
| **Ingredients** | **Units** | **Guaranteed Potency****In Supplement** | Sources |
|  |  | Select one option |  |
|  |  | 1 | 2 |  |
| Dried whey | % | 57.14 | - - - | Land O’Lakes or equivalent |
| Whey permeate | % | - - - | 51.43 | Dairylac 80 (International Ingredients or equivalent |
| Fish meal | % | 17.14 | 28.57 |  |
| Corn Minimum Maximum | % | 0 | 0 |  |
| % | 2.0 | 2.0 |
| Monocalcium phos (21% P) | % | 3.71 | 3.43 |  |
| Limestone (38% Calcium) | % | 3.71 | 3.43 |  |
| L-Lysine HCl | % | 2.00 | 2.00 |  |
| DL-Methionine | % | 0.77 | 0.77 |  |
| L-Threonine | % | 0.74 | 0.83 |  |
| L-Tryptophan | % | 0.086 | 0.086 |  |
| L-Valine | % | 0.286 | 0.286 |  |
| Salt | % | 3.14 | 3.14 |  |
| Zinc oxide | % | 1.43 | 1.43 |  |

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| Vitamins | Units | **Guaranteed Potency****Added per Ton of Supplement** | **Sources** |
| Vitamin A | IU | 21,400,000 | Vitamin A acetate (retinyl acetate) |
| Vitamin D | IU | 8,500,000 | Vitamin D3 (cholecalciferol) with at least 50% supplied by a vitamin A/D3 cross-linked beadlet |
| Vitamin E (Pick one source and provide source with quotation) | mg | 228,500 | dl--tocophorol acetate |
| mg | 114,250 | d--tocophorol acetate (Natural E) |
| Vitamin K (menadione) | mg | 27,100 | MPB (Menadione dimethylpyrimidinol bisulfite) or MNB |
| Vitamin B12 | mg | 170 | Cyanocobalamin |
| Niacin | mg | 257,000 | Niacinamide, Nicotinic acid |
| Pantothenic acid | mg | 142,800 | d-calcium pantothenate |
| Riboflavin | mg | 42,800 | Crystalline riboflavin |
| **Phase 2 Supplement Specification – Page 2 of 2** |
| Minerals | Units | **Guaranteed Potency****Added to Supplement** | **Sources** |
| Copper | ppm | 94 | Copper sulfate |
| Iodine | ppm | 1.70 | Ca iodate, Ethylenediamine dihydriodide (EDDI) |
| Iron | ppm | 625 | Ferrous sulfate, Ferrous carbonate |
| Manganese | ppm | 185 | Manganese sulfate, manganese oxide |
| Selenium | ppm | 1.70 | Sodium selenite |
| Zinc | ppm | 11,230 | Zinc oxide (MUST BE ZINC OXIDE) |
|  |  |  |  |
|  | Units | **Guaranteed Potency****per Lb of Supplement** | **Sources** |
| Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer. | FTU | 3,710 | OptiPhos PF (Huevepharma); Quantum Blue G (AB Vista) |
| FYT | 5,180 | Axtra TPT (Dupont);Ronozyme Hi-Phos GT (DSM);Natuphos E 5,000 G (BASF) |
| The following points must be followed unless approval for changes have been made:1. Guaranteed to stay free-flowing and lump free.
2. When bagged, all bags must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.
3. Formulate using the guaranteed analysis from the supplier for the nutrient. We can request label copies of your ingredients and copies of your mixing records to show quantities of ingredients per batch.
4. Permission must be obtained before using an alternative source for any ingredient.
5. When using the KSU premix recommendations, the supplement should contain 1.43% vitamin premix with phytase (28.6 lb/ton of supplement) and 0.86 lb of trace mineral premix (17.2 lb/ton of supplement).
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