



Granular ES

Non-Spherical Granule, Light to Dark Brown in color, essentially odorless, fibrous material. No additives and/or binders. Excellent Flow characteristics

Uses:

- Feed Ingredient
- Absorbent Material
- Fiber Ingredient
- Cellulosic Products
- Fiber Filler Products
- Extender Products
- Soil Additives
- Soil Amendment Products
- Fluid Loss Prevention
- Lost Circulation Materials

PRODUCT SPECIFICATIONS

Variable Characteristics

| | |
|----------------------------|---------------------|
| Bulk Density (Loose): | 26 - 28#/cubic foot |
| Bulk Density (Compacted): | 28 - 30#/cubic foot |
| Bulk Density (Commercial): | 27 - 28#/cubic foot |
| Angle of Repose: | 37 - 38 degrees |

Physical Characteristics

| | |
|--------------------------------------|----------------------------|
| Color: | Light to dark brown |
| Odor: | Essentially none |
| PH: | 5-6 Bulk (typical 5.0) |
| Moisture (Karl Fisher): | 6.5% Maximum (typical 6.0) |
| Carrying Capacity: Dry, Free Flowing | |
| Water: (wt/wt basis) | 51 - 52% |
| Oil: (wt/wt basis) | 31 - 32% |
| Absorption: | |
| Water: (wt/wt basis) | 168% - 169% |
| Oil: (wt/wt basis) | 90% - 91 % |

Chemical Composition*

| | |
|-----------------------|----------|
| Crude Fiber: | 57.7% |
| Protein: | 6% - 8% |
| Kieldahl Factor 5.46 | |
| Ash: | 2.66% |
| Lignin, permanganatc: | 6.78% |
| Cellulose: | 51 - 55% |
| Total Dry Matter: | 12.7% |



* Report performed by J. Leek Associates 02/02/2004