

Relative Performance Comparison of Nitrogen Sources

| | NITROFORM® | NUTRALENE® | SCU/PSCU | POLYON® | IB NITROGEN | AMMONIUM SULFATE | UREA | AMMONIUM NITRATE |
|---|----------------|----------------|---------------|------------|----------------|------------------|-----------|------------------|
| Nitrogen % | 38% | 40% | 37 - 42% | 42 - 44% | 31% | 21% | 48% | 33-34% |
| Color | Bright Blue | Bright Green | Yellow/Orange | Dark Green | White | Off White | White | White |
| Application Visibility | Excellent | Excellent | Excellent | Poor | Excellent | Fair | Excellent | Excellent |
| Coated Product | No | No | Yes | Yes | No | No | No | No |
| Burn Potential | Virtually None | Virtually None | Possible | Possible | Virtually None | Slight | Very High | Very High |
| Initial Response | 1-2 Weeks | 1-2 Weeks | 1-2 Weeks | 1-2 Weeks | 1-2 Weeks | 3-7 Days | 3-7 Days | 3-7 Days |
| Residual Response/ Application | 8+ Months | 3-4 Months | 2-3 Months | 2-3 Months | 3-4 Months | 4 Weeks | 4 Weeks | 4 Weeks |
| Labor Intensive | Low | Low | Moderate | Moderate | Moderate | High | High | High |
| Microbial Release | Yes | Yes | No | No | No | No | No | No |
| Promotes Root Growth | Yes | Yes | Some | Some | Some | Some | Some | Some |
| Environmentally Friendly | Yes | Yes | Yes | Yes | Moderate | No | No | No |
| Temperature Effect On | No | No | Yes | Yes | No | No | No | No |
| Leach Potential | Very Low | Very Low | Low | Low | Low | High | High | High |
| Violation Potential | Very Low | Very Low | Low | Low | Low | Low | Very High | High |
| Coating Crack Sensitive | No | No | Yes | Yes | No | No | No | No |
| Temperature Sensitive | Low | Low | High | High | Low | High | High | High |
| Moisture Sensitive | Low | Low | Low | Low | High | Moderate | High | High |
| Ph Sensitive | Low | Low | Low | Low | Moderate | Low | High | Low |
| Particle Size Sensitive | Low | Low | Low | Low | Moderate | Low | Low | Low |
| Salt Index | 10 | 25 | 75 | 75 | 5 | 69 | 75 | 105 |

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