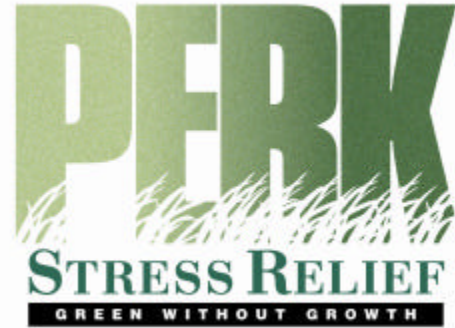


4-0-10-10-1.5



PERK is Unique

It starts with the analysis. It's not sufficient to call PERK 4-0-10 in the traditional sense of fertilizer analysis because PERK needs two more numbers to let you know what it's all about. PERK also delivers 10% iron and 1.5% magnesium.

- PERK is formulated as a controlled-release iron product designed to promote excellent turf color without stimulating unwanted or excessive turf growth.
- PERK also emphasizes potash (sulfate) for the maximum available protection against both mechanical and agronomic stress factors.
- Magnesium is added for nutrient balance. Turf response to iron has been noted to be improved with the presence of magnesium.

PERK has Natural Origins

PERK is based upon a material called Iron Humate. Iron humate is generated when iron is used to clarify water which has an objectionable color due to naturally occurring dissolved organic acid products. These organic fulvates and humates are precipitated by the iron and form a semi-solid mass. When dried, the iron in its humate form is not water soluble. A proprietary granulation process combines the natural iron humate with potash, nitrogen, and magnesium to produce a safe and effective controlled-release iron source.

PERK Research Information

PERK was tested at Penn State University¹ against chelated iron EDTA and ferrous sulfate. Application rates were 0.4, 0.8, and 1.2 lbs Fe/M and were made to wet, one-half inch Penneagle creeping bentgrass. Each application was allowed to stand for one-half hour before being watered in. Further, the iron-only plots had additional nitrogen and potash applied to equal the amount that would be applied by a PERK 4-0-10-10-1.5 application.

- Both the iron sulfate and iron chelate applications turned the turf dark brown to black by the next day. Recovery took over one week.
- PERK did not show this phytotoxicity and greened up markedly. It is recommended that PERK applications be watered in to minimize any risk of staining, particularly when applied at rates of 1.0 lb Fe/M or higher.
- The 1.2 lb Fe/M application was statistically the best performing treatment in the test and the 0.8 and 0.4 lb/M treatments were the next best statistically.

¹Mancino and Petrunak, 1999 Annual Research Report, Penn State University, p. 53
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