



**SGN  
145**

# 4-0-10

## Stress Relief Formula

**Type** A unique, homogeneous formulation of essential turfgrass nutrients engineered to avoid stimulating growth. Over 50% of the formula is derived from organically complexed iron.

<b>Guaranteed Analysis</b>	<b>Nitrogen (N)</b> ..... <b>4.0%</b>
	4.0% Ammoniacal Nitrogen
	<b>Soluble Potash (K<sub>2</sub>O)</b> ..... <b>10.0%</b>
	Magnesium (Mg) .....1.5%
	1.5% Water soluble Magnesium (Mg)
	Sulfur (S).....10.0%
10.0% Combined sulfur (S)	
Iron (Fe) .....10.0%	
1.1% Water soluble Iron (Fe)	

**NUTRIENT  
SOURCES**

Ammonium sulfate, Sulfate of potash, Sulfate of potash-magnesia, Ferrous sulfate, and Iron humate.

**Size** Midsize -10+20    145 SGN    57 lbs per cubic foot    A full-weight, high density product

**Uses** Lebanon PERK® Stress Relief Formula 4-0-10 with 10% Fe and 1.5% Mg promotes good turfgrass color through good health and nutrition without unwanted growth. When used on turf mowed at one-half inch or less, apply a test plot to make sure unwanted spotting or staining does not occur before applying to the entire turf area.

<b>Coverage</b>	<b><u>Fe/M Rate</u></b>	<b><u>Lbs per 1,000 sq ft</u></b>	<b><u>Lbs required to Cover One Acre</u></b>	<b><u>Acres Covered by One Ton</u></b>	<b><u>Sq Ft Covered Per Bag</u></b>	<b><u>Product Required for 25 Acres</u></b>
	0.5	5.0	218 lb	9.2	10,000	109 bags
	0.75	7.5	327 lb	6.1	6,650	163 bags
	1.0	10.0	436 lb	4.6	5,000	218 bags

- Features**
1. Provides the essential turfgrass nutrients potash, iron, and magnesium with lower nitrogen levels so good plant nutrition is achieved without unwanted growth.
  2. Primary emphasis on potash increases turf's ability to resist the stress of hot weather.
  3. Unique iron package is based upon 50+% iron humates and fulvates, organically complexed iron which has been documented to increase the CEC of sandy soils and also acts as a slow-release source of iron.
  4. University studies have shown that higher levels of iron will cause stress to *Poa annua* while stimulating bentgrass.
  5. Humic acids have significantly improved photosynthesis (but not chlorophyll levels) and also increased enzyme activity and root mass in bentgrass.
  6. This product has a high tendency to disperse when contacted with moisture or irrigation.
  7. Magnesium is included for better micronutrient balance and good turfgrass color.



# 4-0-10

## Stress Relief Formula

1. FEATURES

A homogeneous, granular fertilizer of SGN (Size Guide Number) 145, with emphasis on potash and micronutrients, free flowing and substantially noncaking granules which are free of foreign materials.

2. ANALYSIS

<b>Nitrogen (N)</b> .....	Not less than 4%
4.0% Ammoniacal Nitrogen	
<b>Potash (K<sub>2</sub>O)</b> .....	Not less than 10%
10.0% Sulfate of Potash	
<b>Magnesium (Mg)</b> .....	Not less than 1.5%
1.5% Water soluble Magnesium (Mg)	
<b>Sulfur (S)</b> .....	Not less than 10%
10.0% Combined Sulfur	
<b>Iron (Fe)</b> .....	Not less than 10%
1.1% Water soluble Iron (Fe)	

3. SIZE

All particle size shall be -10 + 20 U.S. Standard Sieve (145 SGN).

4. PACKAGING

Fertilizer shall be packaged in specially lined Kraft bags, which shall contain a uniform weight of fertilizer not less than 50 pounds in each bag.

5. ODOR

Fertilizer, when applied to the ground and after irrigation or rain, shall be of low odor.

6. MANUFACTURING PROCESS

All appropriate dry ingredients are formulated into a homogeneous slurry which is then granulated, dried, and carefully screened to the proper size.

7. OTHER REQUIREMENTS

Commercial bulk blended fertilizer not acceptable.