

# OPTIMIZE YOUR OIL

## BENEFITS OF HIGH OLEIC SOYBEAN OIL

### HEALTH



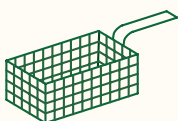
- Lower saturated fat and three times the amount of beneficial monounsaturated fatty acids compared to conventional vegetable oils, which may contribute to lower blood pressure and improved cardiovascular health

### SUSTAINABILITY



- High Oleic soybean oil has an extended fry-life and shelf life, lowering cost and waste, and less packaging required for use
- Soybeans are a renewable energy source, and a nitrogen-fixing legume

### FUNCTIONALITY



- 2-3 times longer fry life and shelf life<sup>1</sup>, when compared to commodity soybean oil
- Provides a cleaner lighter flavor allowing food to be tasted, not oil.

## SOYLEIC™ DELIVERS PERFORMANCE AND FUNCTIONALITY

- Food manufacturers and restaurateurs alike require dependable, high-performance oils — SOYLEIC™ delivers.
- Longer fry life creates cost savings through fewer oil changeovers and reduced disposal of waste oil.
- Resistant to oxidation leads to less build-up on equipment in high-heat applications, resulting in easier cleaning, less maintenance and saving operators time and labor.
- Contributes to longer product shelf life for both packaged and fresh-baked goods, making customers happier longer.
- High smoke point means lower oil absorption for less greasy-tasting foods.
- Neutral flavor lets main ingredient flavors shine through.
- Easy to substitute for existing oils and shortenings in both baking and frying.

## TYPICAL FATTY ACID PROFILE, PROTEIN & OIL CONTENT<sup>2</sup>

|                      | Oleic<br>(Monounsaturated) | Linoleic<br>(Polyunsaturated) | Linolenic<br>(Polyunsaturated) | Saturates<br>(Palmitic & Stearic) | Protein | Oil              |
|----------------------|----------------------------|-------------------------------|--------------------------------|-----------------------------------|---------|------------------|
| <b>SOYLEIC™</b>      | Greater than 75%           | Less than 8%                  | Less than 3%                   | Less than 12%                     | 36%     | 18%              |
| <b>Commodity Soy</b> | 24%                        | 53%                           | 8%                             | 15%                               | 34%     | 19% <sup>2</sup> |

### SOURCES

1. US High Oleic Soybeans & High Oleic Soybean Oil Sourcing Guide for International Customers, Second Edition - September 2021.

2. U.S. 2010-2019 Average, Source: Quality of the U.S. Soybean Crop: 2020, Univ. of MN

# A BOOST FOR BEANS

## 2023 SOYLEIC® COMMERCIALY AVAILABLE VARIETIES

| Seed Company            | Brand Name       | Variety          | Relative Maturity | Fatty Acid Composition |           |           | 13% Moisture |       | Hilum       | Approx. Seeds/lb. | Approx. Seeds/kg |
|-------------------------|------------------|------------------|-------------------|------------------------|-----------|-----------|--------------|-------|-------------|-------------------|------------------|
|                         |                  |                  |                   | Oleic                  | Linolenic | Saturates | Protein      | Oil   |             |                   |                  |
| Benson Hill™            | eMERGE®          | e12H902          | 1.2               | 78.3%                  | 1.8%      | 10.8%     | 37.6%        | 19.1% | Yellow      | 3,200             | 7,040            |
| Brushvale Seeds™        | Brushvale Seeds™ | BS1282           | 1.2               | 78.0%                  | 1.7%      | 10.8%     | 36.5%        | 19.3% | Yellow      | 3,300             | 7,260            |
| Benson Hill™            | eMERGE®          | e13H988          | 1.3               | 78.5%                  | 1.8%      | 10.7%     | 37.3%        | 19.1% | Yellow      | 3,100             | 6,820            |
| University of Minnesota | SOYLEIC®         | M07-297007HOLL-4 | 1.4               | 80.1%                  | 1.6%      | 10.8%     | 38.3%        | 17.9% | Black       | 2,984             | 6,565            |
| University of Minnesota | SOYLEIC®         | M07-297007HOLL-1 | 1.8               | 79.8%                  | 1.6%      | 10.5%     | 38.3%        | 18.5% | Yellow      | 3,171             | 6,976            |
| University of Illinois  | SOYLEIC®         | LD18-GH324-1-5   | 2.3               | 81.4%                  | 2.6%      | 11.2%     | 36.6%        | 18.1% | Grey        | 2,700             | 5,940            |
| Benson Hill™            | eMERGE®          | e24H930          | 2.4               | 78.7%                  | 1.8%      | 11.0%     | 36.3%        | 20.4% | Brown       | 3,052             | 6,714            |
| University of Illinois  | SOYLEIC®         | LD19-22127       | 2.5               | 82.2%                  | 2.5%      | 10.7%     | 34.8%        | 19.2% | Black/Brown | 3,507             | 7,715            |
| University of Illinois  | SOYLEIC®         | LD18-GH324-1-4   | 2.6               | 82.8%                  | 2.5%      | 10.7%     | 36.6%        | 18.3% | Grey        | 2,968             | 6,530            |
| University of Illinois  | SOYLEIC®         | LD20-12206       | 2.6               | 83.3%                  | 2.4%      | 10.5%     | 35.9%        | 18.7% | Black       | 2,350             | 5,170            |
| University of Missouri  | SOYLEIC®         | SA17-2742 HOLL   | 2.8               | 79.2%                  | 0.9%      | 11.9%     | 35.8%        | 18.0% | Buff        | 2,850             | 6,270            |
| Benson Hill™            | eMERGE®          | e28H942          | 2.8               | 80.9%                  | 1.8%      | 11.4%     | 35.0%        | 19.2% | Brown       | 3,339             | 7,346            |
| University of Illinois  | SOYLEIC®         | LD20-09131       | 2.9               | 83.0%                  | 2.4%      | 10.5%     | 35.6%        | 18.9% | Brown       | 3,011             | 6,624            |
| University of Illinois  | SOYLEIC®         | LD18-12779       | 3.1               | 83.6%                  | 2.3%      | 10.2%     | 35.6%        | 19.3% | Black       | 3,214             | 7,071            |
| University of Illinois  | SOYLEIC®         | LD18-12776       | 3.2               | 83.9%                  | 2.2%      | 10.4%     | 35.4%        | 19.3% | Black       | 2,700             | 5,940            |
| University of Illinois  | SOYLEIC®         | LD20-12214       | 3.3               | 84.1%                  | 2.2%      | 10.2%     | 36.1%        | 18.8% | Black       | 2,652             | 5,834            |
| University of Illinois  | SOYLEIC®         | LD19-12315       | 3.4               | 81.9%                  | 2.4%      | 10.7%     | 35.7%        | 19.2% | Buff        | 3,429             | 7,544            |
| Benson Hill™            | eMERGE®          | e34H608S         | 3.6               | 79.0%                  | 2.3%      | 11.4%     | 37.0%        | 19.1% | Black       | 2,800             | 6,160            |
| Benson Hill™            | eMERGE®          | C37H051S         | 3.7               | 75.5%                  | 2.4%      | 11.4%     | 37.1%        | 19.6% | Black       | 2,751             | 6,052            |
| Benson Hill™            | eMERGE®          | C38H052S         | 3.8               | 78.4%                  | 2.0%      | 10.8%     | 37.8%        | 18.9% | Black       | 2,619             | 5,762            |
| University of Illinois  | SOYLEIC®         | LD19-12943       | 3.9               | 82.8%                  | 2.1%      | 10.9%     | 37.1%        | 18.8% | Buff        | 3,149             | 6,928            |
| University of Missouri  | SOYLEIC®         | SA17-8882 HOLL   | 4.0               | 79.9%                  | 2.3%      | 11.2%     | 35.5%        | 17.1% | Black       | 2,920             | 6,424            |
| Benson Hill™            | eMERGE®          | C44H054S         | 4.4               | 77.9%                  | 1.9%      | 10.6%     | 37.5%        | 20.1% | Black       | 2,578             | 5,672            |
| University of Missouri  | SOYLEIC®         | S15-17812 HOL    | 4.8               | 84.2%                  | 2.9%      | 10.2%     | 36.5%        | 19.0% | Buff        | 3,700             | 8,140            |
| University of Georgia   | SOYLEIC®         | G15PR-340        | 6.0               | 79.3%                  | 2.6%      | No Data   | 36.1%        | 20.2% | Buff        | 3,410             | 7,500            |
| University of Georgia   | SOYLEIC®         | G17PR-1207HOLL   | 7.0               | 78.7%                  | 1.9%      | No Data   | 37.7%        | 19.3% | Black       | 2,800             | 6,250            |
| University of Georgia   | SOYLEIC®         | G17PR-1053HOLLR1 | 7.0               | 79.0%                  | 2.7%      | No Data   | 34.6%        | 18.0% | Black       | 3,200             | 7,100            |

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