A DAY IN THE LIFE OF SAM SOYBEAN

Crown applies its engineering expertise to all aspects of soybean oilseed processing including crushing, refining, biofuels, and oleochemicals.

PREPARATION

- Dehulled
- Soap Stock Added from Neutralization
- Heat Shocked
- Cracked
- Conditioned
- Desolventized
- Toasted
- Dried
- Cooled
- Washed
- Washed
- Flaked
- Flaked
- Extracted
- Distilled
- Hexane Recycled
- Hexane
- Oil
- Crude Soybean Oil
- Sifted
- Sifted
- (Hammer Mill)
- Soy Protein Meal
- End Use: Food for People and Animals

WATER DEGUMMING

- Water Added
- Gums
- Heat and Dried
- Shipped to Others to Process
- Lecithin
- End Use: Emulsifiers

NEUTRALIZING

- Acid and Caustic Added
- Acid Water to Water Treatment
- Soap Stock Splitting
- Acid Oil
- End Use: Animal Feed, Oleochemical

ENZYMATIC DEGUMMING

- Enzyme Added
- Gums
- Acid and Caustic Added
- To Desolventizer Toaster
- Acid Oil
- End Use: Animal Feed, Oleochemical

BLEACHING

- Spent Clay to Landfill or Back to Meal
- Bleaching Clay is Added
- Filtration

DEODORIZING

- Heat
- Odors and Flavors Removed
- By-product: Glycerin
- Salt Removed
- Water & Alcohol Removed (All Recycled)
- Refined Glycerin
- End Use: Cosmetics, Toothpaste, Soap

TRANSESTERIFICATION

- Alcohol and Catalyst Added
- Crude Biodiesel
- Water Wash (All Recycled)
- Heat

RENEWABLE DIESEL

- Water Wash (All Recycled)
- Heat
- Biodiesel
- End Use: Fuel

Fatty Acid Oleochemicals

- Deodorized Soy Oil
- End Use: Cooking Oil, Salad Oil, Margarine

Tocopherol Vitamin E

©2019 Crown Iron Works