



## **IS 12361:2023 — Partially Hydrogenated Rice Bran Fatty Acids — Specification**

### **Product Definition:**

IS 12361 specifies the quality requirements for Partially Hydrogenated Rice Bran Fatty Acids, a product derived from rice bran oil. Through partial hydrogenation, the product achieves specific functional properties, making it useful in various industrial applications, including the production of soaps, detergents, and other oleochemical derivatives. This standard ensures the product meets consistent quality and safety benchmarks for consumer and industrial use.

Consumers and industrial users expect partially hydrogenated rice bran fatty acids to exhibit the following quality attributes:

**Purity and Composition:** A defined fatty acid profile, with controlled levels of saturated and unsaturated fatty acids, is crucial for its performance.

**Physical Properties:** Desired melting point, color, and consistency ensure compatibility with industrial processes.

**Safety and Stability:** Absence of harmful impurities such as heavy metals, and low levels of trans fats, enhance safety and application reliability.

**Shelf Stability:** Resistance to oxidation and rancidity ensures a longer shelf life and consistent performance.

IS 12361:2023 specifies that material shall be obtained by splitting, distillation, hydrogenation and redistillation; or splitting, hydrogenation and distillation; or hydrogenation, splitting and distillation of rice bran oil. The material shall be free from sediment, suspended and other foreign matter and separated water. It shall be clear on melting. Further, the standard specifies the requirements like Moisture, percent by mass, Saponification value, Acid value, Iodine value, Mineral acidity, Ash, Unsaponifiable matter, Titre and Colour to ensure functionality and consistency. The standard also specifies method of tests for mineral acidity and ash.

The standard mandates proper packaging to prevent contamination and detailed labelling to inform users of product composition, batch information, and handling instructions.

By addressing these expectations, IS 12361 guarantees a high-quality, reliable product that meets the needs of diverse industrial applications and ensures consumer confidence.