**BSTI standards**

**Requirement of fortified edible soyaben oil by BSTI (Ref: BDS 1769:2006)**

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| **Sl. No.** | **Characteristics** | **Requirements** |
| i) | Volatile matter at 1500 C Percent by mass Max | 0.2 |
| ii) | Insoluble matter, percent by mass Max | 0.05 |
| iii) | Soap content, percent bt mass Max | 0.005 |
| iv) | Acid value (as KOH). mg/g. Max | 0.6 |
| v) | Unsaponifiablematter mg/g. Max | 15.0 |
| vi) | Refractive index at 400 C | 1.466 – 1.470 |
| vii) | Relative densityat 200/200 C | 0.919 – 0.925 |
| viii) | Iodine value | 120 -143 |
| ix) | Saponification value (as KOH) mg/g | 189 – 195 |
| x) | Iron (as Fe), ppm. Max | 1.5 |
| xi) | Copper (as Cu ppm. Max | 0.1 |
| xii) | Lead (as Pb) ppm. Max | 0.1 |
| xiii) | Arsenic (as As) ppm Max | 0.1 |
| xiv) | Peroxide value Max, Milliequivalents percent by Max | 10 |
| xv) | Vitamin A, microgram/kg (ppm) | 10 - 15 |

**Requirement of fortified edible palm oil by BSTI (Ref: BDS 1770:2006)**

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| **Sl. No.** | **Characteristics** | **Requirements** |
| i) | Moisture, Percent by mass Max | 0.10 |
| ii) | Insoluble impurities, percent by mass Max | 0.05 |
| iii) | Colour in a 2.5 cm (or 1 inch) cell on the livibond scale | Y=20  R=0.2 |
| iv) | Melting point, 0C, Max (open capillary slip method) | 27.0 |
| v) | Free fatty acid (as palmitic) Percent by mass, Max | 0.25 |
| vi) | Unsaponifiablematter mg/g. Max | 1.2 |
| vii) | Refractive index at 400 C | 1.4580 – 1.4590 |
| viii) | Relative densityat 270 C | 0.910 – 0.915 |
| ix) | Iodine value | 53 |
| x) | Saponification value (as KOH) mg/g | 190 - 209 |
| xi) | Peroxide value Max, Milliequivalents percent by Max | 8.0 |
| xii) | Total carotenoids as B Carotene) mg/kg | 500 - 1000 |
| xiii) | Aflatoxin, mg/kg, Max | 5.0 |
| xiv) | Vitamin A, microgram/kg (ppm) | 10 - 15 |