

**TECHNICAL SPECIFICATIONS FOR MIX OIL  
50% REFINED SUNFLOWER OIL AND 50% REFINED CORN OIL**

**Specifications**

**Recommended value**

|                                         |                                                                    |
|-----------------------------------------|--------------------------------------------------------------------|
| Organoleptic                            | Neutral/bland<br>taste; absence of foreign odours and<br>flavours  |
| Moisture and volatile matter            | 0.2% maximum                                                       |
| Insoluble impurities                    | 0.05% maximum                                                      |
| Free fatty acid                         | 0.15% maximum expressed                                            |
| as oleic acid                           |                                                                    |
| Linoleic acid (C18:2)                   | 48.3-74% of total fatty acids                                      |
| Delta-7 Stigmasterol                    | 6.5-24% of total sterol                                            |
| Acid value                              | 0.6 mg maximum of KOH/g oil                                        |
| Color                                   | 5-1/4 inch Lovibond cell<br>Red: 1.5 maximum<br>Yellow: 15 maximum |
| Soap content                            | 0.005% maximum                                                     |
| Peroxide number                         | 2 milliequivalents maximum of<br>active oxygen per kg oil          |
| Saponification value                    | 188-194 mg KOH/g oil                                               |
| Iodine value                            | 118-141 g/ 100 g oil                                               |
| Unsaponifiable matter                   | 1.5% maximum                                                       |
| Refractive index (ND <sub>40</sub> °C)  | 1.461-1.468                                                        |
| Relative density (20°C / water at 20°C) | 0.918-0.923                                                        |

**Authorized additives**

|                            |                     |
|----------------------------|---------------------|
| - Butylated hydroxyanisole | - 175 mg/kg maximum |
| - Butylated hydroxytoluene | - 75 mg/kg maximum  |

|           |                           |
|-----------|---------------------------|
| Vitamin A | 24000-36000 UI per kg oil |
| Vitamin D | 2400- 3600 UI per kg oil  |

**Additional Requirements:**

***Heavy metals***

|                                                                                |                              |
|--------------------------------------------------------------------------------|------------------------------|
| - Lead (Pb)                                                                    | Max 0.1 ppm                  |
| - Arsenic (As)                                                                 | Max 0.1 ppm                  |
| - Iron (Fe)                                                                    | Max 1.5 ppm                  |
| - Copper (Cu)                                                                  | Max 0.1 ppm                  |
| - Polycyclic<br>Aromatic Hydrocarbons (PAH)                                    | Adromatic Hydrocarbons (PAH) |
| - PAH heavy                                                                    | Max 5 ppb                    |
| - PAH total                                                                    | Max 25 ppb                   |
| - Benzo(a)pyrene                                                               | Max 2 ppb                    |
| - Free from radioactivity                                                      |                              |
| - Free from Genetically Modified Organisms (GMO) (if required by the contract) |                              |
| -                                                                              |                              |