

**PRODUCT SPECIFICATION - SUNFLOWER OIL MALAYSIA**

**THE PHYSICAL TEST:**

- 1- The product must have its smell and taste, free from rancidity or any strange taste or smell.
- 2- The product should be clear, free from foreign matter.
- 3- The product should be free from any oil or animal fats.
- 4- The product should be free from any solvents that used during extraction.

**THE CHEMICAL TESTS:**

- 1- The relative density (AT 20 C) 0.918 - 0.923
- 2- The refractive index (AT 40 C) 1.467 – 1.469
- 3- IODINE VALUE (WIJ) 110 – 143
- 4- THE SAPONIFICATION VALUE (MgKOH / gm OIL) 188 – 194
- 5- THE UNSAPONIFBLE MATTER % (1,5 MAX)
- 6- PEROXIDE VALUE MAX. 10 (Mequelant / Kg OIL)
- 7- THE ACIDITY {(Mg KOH) % gm OIL} CRUDE OIL 4 UNCRUDE OIL 0.6

**COLOURING MATERIALS:**

IT'S ALLOWED TO ADD:

BETA CAROTENE ACCORDING TO THE GOOD MANUFACTURING PRODUCTS  
ANATO ACCORDING TO THE GOOD MANUFACTURING PRODUCTS  
CURCUMINE ACCORDING TO THE GOOD MANUFACTURING PRODUCTS

**FLAVOURS:**

IT'S ALLOWED TO ADD NATURAL FLAVOURS OR THE ARTIFICIAL FLAVOURS THAT IS ABLE TO USE INTERNATIONALLY.

**ANTI OXIDANT:**

- A. BHT 200Mg / Kg INDIVIDUALLY OR MIXED
- B. BHA
- C. MIXTURE OF BHT, BHA 200Mg / Kg BUT THE GALATE AND SHOULD NOT EXCEED 100 MG/Kg.

**THE ASISTANT FOR THE ANTI OXIDANT:**

- A. CITRIC ACID AND SODIUM CITRATE ACCORDING TO THE GOOD MANUFACTURING PRODUCTS
- B. LICITHINE ACCORDING TO THE GOOD MANUFACTURING PRODUCTS

- C. MIXTURE OF ISO PROPYL CITRATE 100 MG / KG INDIVIDUALLY OR AS A MIXTURE.
- D. MONO GLYSIRINE CITRATE
- E. PHOSPORICH ACID

**THE ANTI FOAMING AGENT:**

- A. DI METHYL POLY CYLOXINE 10 MG / KG INDIVIDUALLY OR AS MIXTURE WITH SITION DI OXIDE.

**ANTI CRYSTALIZATION:**

OXYSTEARIN 1250 MG / KG

**CONTAMINATION:**

- A- VOLITAIL MATTER AT 105 C % MASS 0.2 MAX
- B- UN SOULBEL IMPURITIES % MASS 0.5 MAX
- C- SOAP CANTAIN 0.005 MAX
- D- Fe 1.5 PPM