

2.3 The material shall also comply with the requirements given in Table-1

**Table-1: Requirements for Fortified Soyabean Oil**

Sl No.	CHARACTERISTIC	REQUIREMENTS	METHOD OF TEST REF.BDS 1584
(1)	(2)	(3)	(4)
i)	Moisture and Insoluble impurities, percent by mass, Max	0.1	9 & 10
ii)	Colour in a 1 inch ( 2.54 cm) cell on the Lovibond scale expressed as Y+ 5R, not deeper than	7.5	4
iii)	Refractive index at 40°C	1.4650-1.4710	7
iv)	Relative density (20° / 20°C)	0.919 – 0.925	10
v)	Saponification value ( as KOH), mg/g	189-195	15
vi)	Iodine value	124-139	19
vii)	Acid value ( as KOH), mg/g,Max	0.5	11
viii)	Unsaponifiable matter, percent by mass, Max	1.5	17
ix)	Peroxide value, expressed as milliequivalents of as oxygen per kg,Max	5.0	20
x)	Flash point, Pensky-Martins ( closed) °C Min.	250	23
xi)	Phosphorus content	To pass the test	No visible break on heating the oil at 250°C
xii)	Vitamin A, mg/kg	15-30	Appendix B or C of BDS1769:2014

2.4 The product shall not contain any of the toxic metals in excess of the quantities prescribed in Table-2.

**Table-2: Limits for heavy metals**

Sl. No.	CHARACTERISTIC	REQUIREMENTS	METHOF OF TEST REF. TO
(1)	(2)	(3)	(4)
i)	Lead (as Pb) , ppm,Max.	0.1	AOAC Method 974.27,1990/2005
ii)	Arsenic (as As ) , ppm,Max.	0.1	AOAC Method 986.15,1990/2005
iii)	Cadmium ( Cd) , ppm,Max.	1.0	AOAC Method 974.27,1990/2005
iv)	Mercury ( total), ppm,Max.	0.25	AOAC Method 971.21,1990/2005
v)	Iron (as Fe), ppm, Max.	1.5	AOAC Method 9920.197,1990/2005/App.D of BDS1769:2014
vi)	Cooper (as Cu), ppm,Max	0.1	AOAC Method 991.11,1990/2005/ App.E of BDS1769:2014