

4. QUALITY CRITERIA

The limits established for each criterion and designation include the precision values of the attendant recommended method

4.1. <u>Organoleptic characteristics</u> - odour and taste - odour and taste (on a continuous scale); - median of defect - median of the fruitiness attribute - colour - aspect at 20°C for 24 hours	Extra virgin olive oil	Virgin olive oil	Ordinary virgin olive oil	Lampante virgin olive oil *	Refined olive oil	Olive oil	Crude olive-pomace oil	Refined olive-pomace oil	Olive-pomace oil
	Me = 0 Me > 0	0 < Me ≤ 3.5 Me > 0	3.5 < Me ≤ 6.0**	Me > 6.0	acceptable	good		acceptable	good
					light yellow	light, yellow to green		light, yellow to brownish yellow	light, yellow to green
					limpid	limpid		limpid	limpid
4.2. <u>Free acidity</u> % m/m expressed in oleic acid	≤ 0.8	≤ 2.0	≤ 3.3	> 3.3	≤ 0.3	≤ 1.0	no limit	≤ 0.3	≤ 1.0
4.3. <u>Peroxide value</u> in millieq. Peroxide oxygen per kg/oil	≤ 20	≤ 20	≤ 20	no limit	≤ 5	≤ 15	no limit	≤ 5	≤ 15

* It is not obligatory for the criteria in 4.1, 4.2 and 4.3 to be concurrent; one is sufficient.

** Or when the median of the defect is less than or equal to 3.5 and the median of the fruitiness attribute is equal to 0.

4. QUALITY CRITERIA (contd.)

4.4. Absorbency in ultra-violet (K ^{1%1cm})	- 270 nm	≤ 0.22	≤ 0.25	≤ 0.30 ***	≤ 0.30	≤ 1.10	≤ 0.90		≤ 2.00	≤ 1.70
	- Δ K	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.16	≤ 0.15		≤ 0.20	≤ 0.18
	- 232 nm*	≤ 2.50**	≤ 2.60**							
4.5. Moisture and volatile matter (% m/m)	≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.3	≤ 0.1	≤ 0.1	≤ 0.1	≤ 1.5	≤ 0.1	≤ 0.1
4.6. Insoluble impurities in light petroleum % m/m	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.2	≤ 0.05	≤ 0.05	≤ 0.05		≤ 0.05	≤ 0.05
4.7. Flash point	-	-	-	-	-	-	-	≥ 120°C	-	-
4.8. Trace metals mg/kg	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0		≤ 3.0	≤ 3.0
Iron	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1		≤ 0.1	≤ 0.1
Copper										
4.9. Fatty acid methyl esters (FAMES) and fatty acid ethyl esters (FAEES)	- Σ FAME + FAE ≤ 75 mg/kg or - Σ FAME + FAE ≥ 75 mg/kg and ≤ 150 mg/kg and FAE/FAME ratio ≤ 1.5									
4.10. Phenols content	See point 11.25									

* This determination is solely for application by commercial partners on an optional basis.
 ** Commercial partners in the country of retail sale may require compliance with these limits when the oil is made available to the end consumer.
 *** After passage of the sample through activated alumina, absorbency at 270 nm shall be equal to or less than 0.11.