

ARE4: Low Acidity Acid Oil (vegetable origin) – v0921

Turning low-value/high-FFA waste/residue streams from industrial processes into a renewable raw material for 2nd generation biofuels production or an ultra-low emission fuel. A sustainable solution.

Low Acidity Acid Oil can be used as straight replacement of crude vegetable oil or blended with conventional UCO/crude vegetable oil for usage in traditional 1st generation **transesterification**, **HVO** and **CO-PRO** processes.

Raw Material / Input residues:

High Acidity Fat, Oil and Grease residues from different industrial processes. Recycled fats and inedible oils. Nowadays EXPLORA is using high FFA oil residues from the production of refined soybean/sunflower/corn oils which are certified as “Waste/Residue from processing of vegetable oils (Soybean, Sunflower, Corn)” by ISCC EU.

Product Review:

Low Acidity Acid Oil is a mixture of mono/di/tri-glycerides. Liquid at room temperature, complies with the following specification (ET-LA02-038-A):

Property	Unit	Lower limit	Upper limit	Test-Method
Viscosity at 40°C	cSt	10.00	70.00	ASTM D445
Density at 15°C	g/cm3	0.8900	0.9600	ASTM D1298
Phosphorus	mg/kg	---	300	ISO 10540-3 (ICP)
Water by Karl Fischer (M)	% (w/w)	---	0.20	ISO 8534
MIU	% (w/w)	---	6.00	M: ISO 8534 I: ISO 663 U: ISO 3596
Total Organic Sulphur	mg/kg	---	150	ASTM D5453 ISO 20846
Iodine value	g Iodine/100g	110	140	ISO 3961 EN 14111
Free fatty acid (as oleic acid)	% (w/w)	---	3.0*	ISO 660
Flash point	°C	120	---	ISO 15267

* Also available in an Ultra Low Acidity variant (1.0 % FFA máx.).

Appearance (image of a sample of Veg. Low Acidity Acid Oil):



Usage:

Low Acidity Acid Oil, certified by ISCC as “Waste/Residue from processing of vegetable oil”, can be used in a transesterification unit, in a HVO unit, in co-processing or burned directly as a low-acidity biofuel. It is eligible for double-counting in many countries. As a bioliquid, it can save up to 98% of greenhouse gas emissions compared to the mineral fuel it can replace. Thus, the product can be commercialized as a fuel or as raw material for advanced biofuel producers.

Orders:

Loaded in isotanks (or flexitanks).

Minimum order: 4 isotanks/flexitanks (@23,2 MT/isotank; @21,8 MT/flexitank).

For cargoes of more than 1,000 MT we can consider bulk shipping in chemical tankers.

For more information, please contact:

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