USDA COMMODITY REQUIREMENTS

BOT1 BULK OIL AND TALLOW FOR USE IN EXPORT PROGRAMS

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Part 1 COMMODITY SPECIFICATIONS

Section 1.1 COMMODITY SPECIFICATIONS

- A. Crude Degummed Soybean Oil
 - 1. The quality of the crude degummed soybean oil shall correspond to the following specifications described in Rule 103 of the National Oilseed Processors Association's Yearbook & Trading Rules.

2. Physical Requirements:

Crude Degummed Soybean Oil shall be pure soybean oil, produced from fair average quality crude soybean oil from which the major portion of the gums naturally present has been removed by hydration and mechanical or physical separation. It shall be equal in quality to soybean oil produced for domestic consumption. Product which deviates from the specifications of this contract shall be rejected.

3. Analytical Requirements:

The chemical analysis to determine quality shall include the qualitative test for fish oil and marine animal oils and shall be negative.

Item	Max.	Min.	Method
Unsaponifiable Matter	1.5%		Ca 6a-40
Free Fatty Acids, as Oleic	0.75%		Ca 5a-40
Moisture, Volatile Matter and Insoluble Impurities	0.3%		M&V Ca 2d-25 Ca 3a-46
Flash Point		250°F	Cc 9c-95
Phosphorous	0.02%		Ca 12-55

4. Discounts:

If the product to be delivered by the contractor does not meet the analytical requirements above, but falls within the ranges listed below, the product may be delivered to the Government, but the purchase price will be reduced in accordance with the following schedule of discounts.

Free Fatty Acids	0.76% - 0.85%	0.2% of contract price
	0.86% - 0.95%	0.4% of contract price
	0.96% - 1.05%	0.6% of contract price
	1.06% - 1.15%	0.9% of contract price
	1.16% - 1.25%	1.2% of contract price
Phosphorous	.021%	0.2% of contract price
	.022%	0.4% of contract price
	.023%	0.6% of contract price
	.024%	0.9% of contract price
	.025%	1.2% of contract price

B. Fully Refined Soybean Oil

- 1. Fully Refined Soybean Oil shall meet the following specifications, as described in Rule 103 of the National Oilseed Processors Association's Yearbook & Trading Rules.
- 2. **Physical Requirements:**

Fully Refined Soybean Oil sold for export shall be pure soybean oil. It shall be produced from fair average quality crude soybean oil from which essentially all of the free fatty acids and non-oil substances have been removed by chemical treatments and by mechanical or physical separation. The oil shall be a.) clear and brilliant in appearance at 70-85°F, b.) free from settlings or foreign matter of any kind, and c.) bland and free from rancid, painty, musty, soapy, fishy, metallic, beany, and other foreign or undesirable odors and flavors when tested. Product which deviates from the specifications of this contract shall be rejected.

The chemical analysis to determine quality shall include the qualitative test for fish oil and marine animal oils and shall be negative. Preservatives

- Item Max. Min. Method 20 Yellow Color, Lovibond Cc 13b-45 2.0 Red Free Fatty Acids, as Oleic 0.05% by weight Ca 5a-40 Peroxide Value 2.0 meq./kgm. Cd 8-53 Cold Test 5.5 hrs Cc 11-53 8 hrs-Fat Stability - AOM Cd 12-57 35 meq./kgm. Moisture + Volatile Matter 0.10% by weight Ca 2d-25
- 3. Analytical Requirements:

(GRAS) are permitted.

C. Crude Corn Oil

- The oil shall meet the specifications as described in Rule 6.14 of the National Institute of Oilseed Products Trading Rules.
- 2. **Physical Requirements** The crude corn oil shall be pure and produced only from corn of fair average quality. Product which deviates from the specifications of this contract shall be rejected.
- 3. Analytical Requirements:

Item	Maximum	Basis
Free Fatty Acids, as Oleic	5.0%	3.0%
Moisture and Impurities	1.0%	0.5%

1.

- 4. Discounts
 - A. The free fatty acids, as oleic, shall be discounted 0.5% of the contract value for each 1.0% in excess of 3.0%, fractions in proportion.
 - B. The moisture and impurities shall be discounted 0.1% of the contract value for each 0.1% in excess of 0.5%, fractions in proportion.

D. Crude Sunflower Seed Oil (including Nusun)

- The quality of the crude sunflower seed oil shall correspond to the following specifications contained in the American Fats and Oils Association Inc. Rulebook for Vegetable Oils (Export Contract), Rule 14.
- 2. Physical Requirements The crude sunflower seed oil (including Nusun) shall be pure and produced only from sunflower seeds of fair average quality by hydraulic, expeller or solvent extraction process. Product which deviates from the specifications of this contract shall be rejected.

Item	Max.	Min.	Method
Flash Point		250 ^o F	Cc 9b-55
Halphen Test	Negative		
Saponification Value	194	188	
Unsaponifiable	1.3%		
Free Fatty Acid, as Oleic	3.0%	Basis 2.0%	
Moisture and Volatile Matter	0.5%		Ca 2d-25
Insoluble Impurities	0.3%		Ca 3-46
Color (in 5 ¼ inch cell or tube), Bleached, After Refining	2.5 Red		Cc 13b-45 Cc 8g-52 Ca 9a-52
Linolenic Acid	1.0%		
Oleic Acid (as % of TFA) (applicable for Nusun only)	75%	55%	

3. Analytical Requirements:

- 4. Discounts. Free Fatty Acid, as Oleic, shall be discounted 0.1% of the contract value for each 0.1% of free fatty acid in excess of 2.0%; fractions in proportion.
- E. Tallow
 - 1. The quality of the tallow shall correspond to the specifications contained in Rule 7 of the Rules of the American Fats and Oils Association (AFOA) for animal tallow and grease (export contract), or any modifications

agreed to, that are in effect on the date the contract is entered into. The grade and commodity specifications shall be specified in the solicitation.

2. Physical Requirements

The bulk tallow shall contain only fluids and fatty acids natural to the product except for such other substances in such amounts as might occur unavoidably in accordance with industry practice. Commodities are to be free from sludge and tank bottoms.

 Deviations All the tolerances and discounts as provided for in AFOA rules 9, 10, and 11 will apply.

Section 1.2 SAMPLING AND ANALYSIS

- A. Upon receipt of the ten day preadvice, or at KCCO's request, the contractor shall furnish a statement showing the name and address of the persons, firms or agency designated in the following paragraph that will perform the sampling, analysis and surveying service, and the load berth(s).
- B. The drawing of samples and laboratory analysis will be performed by independent surveyor(s) and commercial chemist(s) at contractor's expense. When utilizing the services of a private, independently owned and operated laboratory the following applies:
- C. The samples shall be drawn from each ship's tank(s). When more than one (1) shipper supplies material for a commingled shipment, a representative sample of each shipper's material shall be secured, prior to commingling.
- D. All samples shall be obtained in accordance with American Oil Chemists' Society Method C 1-47.
- E. The chemical analysis by commercial chemist(s) shall be performed under methods prescribed in the Trading Rules of the National Soybean Processors Association or the American Fats and Oils Associations, as applicable.

Section 1.3 WEIGHTS

Determination of weight shall be by an independent surveyor mutually agreeable to the Government and the contractor. The weight shall be determined at the time of loading onboard the vessel. Before such loading, each tank into which the bulk commodity is to be loaded shall be examined by such independent surveyor to determine that the tank(s) are clean and otherwise suitable for receipt and carriage of the bulk commodity.