

Section 1 AOF 1-1 Table 5: Polyunsaturated Sunflower Standard

Commodity : SUNFLOWER - Polyunsaturated		Standard Reference No: CSO 3
Parameter	Specification	Comment/Price Adjustment
Physical & Chemical Parameters		
General Polyunsaturated Sunflowers are sunflowers of the species <i>Helianthus annuus</i> with polyunsaturated oil which has a minimum of 62% Linoleic Acid and maximum 1% Linolenic Acid.		
Accepted Varieties	As per Masterlist	Approved Polyunsaturated sunflower varieties as listed in these Standards or on the AOF website.
Oil (%)	40.0 base level	1.5% premium or deduction for each 1% above or below 40%
Linoleic Acid (%) Min	62.0	
Free Fatty Acid (%)	2.0 base level	2% deduction for each 1% over the base level, rejectable over 3.0%
Refractive Index	1.472 – 1.474	A Fatty Acid Profile test overrides the results from a Refractive Index test.
Moisture Max (%)	9.0	2% deduction for each 1% over maximum
Test Weight Min (kg/hl)	32.0	
Protein	Unlimited	
Seed Retention	Unlimited	
Germination	Unlimited	
Defective Sunflower (Maximum % wt/wt unless otherwise stated based on cleaned half litre sample retained above 2.0mm round hole screen)		
Broken or Split (%)	7.0	0.5% deduction for each 1% over the maximum
Heat Damaged, Bin Burnt (per 1,000 seeds)	1	
Mouldy (count per half litre)	1	
Defective (%) of which	10.0	0.5% deduction for each 1% over the maximum
Damaged (%)	3.0	Includes Diseased, Frost Damaged, Green, Immature, Insect Damaged, Weather Stained and Otherwise Materially Damaged. Includes Sticky Exudate if the grain does not flow freely. 0.5% deduction for each 1% over the maximum, rejectable over 10%
Sprouted (%)	5.0	0.5% deduction for each 1% over the maximum
Contaminants (Maximum count per half litre unless otherwise stated, rejectable over unless deductions are stated as applying)		
Impurities (% wt/wt), 80g sample	4.0	Is all foreign material, including sunflower seed material and other material falling through the 2.0mm round hole screen. 1% deduction for each 1% of impurities up to 4%, 2% deduction for each 1% of impurities over 4%
Snails/Stones	1 Snail/Stone over 3.0mm in diameter/2.5L	Tolerance of 1 per 2.5 litre sample for any Snails/Stones over 3.0 mm in diameter. If one Snail/Stone is found over 3.0mm in diameter in the ½ litre sample, then a further four ½ litre samples should be taken. If a Snail/Stone is found in any one of the subsequent samples, the load is to be rejected For stones a maximum weight of 4.0g applies.
	1 Snail/Stone less than 3.0mm in diameter/0.5L	Tolerance of 1 Snail/Stone per ½ litre sample less than 3.0 mm in diameter
Insects - Large (Live and/or Dead)	10	Includes Rutherglen bugs, ladybirds, grasshoppers, wood bugs, sitona weevil, earwigs, millipedes vegetable bugs and pea weevils (dead only)
Insects - Small (Live and/or Dead)	100	Includes all species of aphid, all species of mites and stored product insects (dead only)
Ryegrass Ergot (length in cm)	0.5	Maximum length of all pieces aligned end on end
Sand/Soil (% by wt)	0.06	
Objectionable Material (entire load)	Nil	Commercially unacceptable material such as, but not limited to harmful substances including live stored product insects, live pea weevil, glass, metal, specified weed seeds in excess of the limit prescribed in any of the State Stockfeed Regulations lists of permitted weed seeds, chemicals not approved for sunflowers, musty seed and other material imparting an odour to the sunflowers, sticks/stubble and pickled seed.
Seed Contaminants (maximum tolerance by count per half litre to apply to individual seeds)		
Type A (entire load)	Nil	Alligator Weed, Cape Tulips, Castor Oil Plant, Coriander, Creeping Knapweed, Darling Pea, Dodder, Giant Sensitive Plant, Opium Poppy, Parthenium Weed, Ragweed, Rattlepod, Saffron Thistle, Star Burr, Stinkwort, St. Johns Wort
Type B	1	Burrs (<i>Xanthium</i> spp.) – all except where otherwise stated, Wild Mignonette
Type C	2	Crow Garlic, Skeleton Weed, Thornapple
Type D	3	Common Heliotrope, Darnel, Hexham Scent, Jute, Mexican Poppy, Mintweed, Nightshade
Type E	65	Sesbania Pea