



United States Department of Agriculture

Marketing and
Regulatory
Programs

Agricultural
Marketing
Service

Fruit and
Vegetable
Program

Specialty
Crops
Inspection
Division

Commodity Specification Concentrated Fruit Juices For Manufacturing

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I. General

A. U.S. Standards

Concentrated fruit juice (product/commodity) produced under this Commodity Specification must meet the requirements specified in the applicable United States Standards for Grades of Concentrated Juice for Manufacturing (U.S. Standards) effective on the date of the Solicitation Invitation for Bid (IFB). The U.S. Standards are published separately and are incorporated herein and made a part of this Commodity Specification.

B. Exceptions to U.S. Standards

Exceptions to the U.S. Standards for the Department of Agriculture (USDA) concentrated fruit juice purchases are found in Section II, Individual Product Specifications, of this document. Additional exceptions may be specified in the applicable Solicitation/IFB. Any exceptions contained in the applicable Solicitation/IFB shall have precedence over the requirements contained herein, for that Invitation only.

C. Product Origin

1. Commodities delivered pursuant to this Commodity Specification shall have originated from crops that have been 100 percent grown, processed, and packed in the United States, its territories or possessions, the Commonwealth of Puerto Rico, or the Trust Territories of the Pacific Islands, (hereinafter referred to as the United States). See Section I.F. of the Master Solicitation.
2. If the contractor handles any commodity originating from sources other than the United States, the contractor must have a written plan to segregate the commodity. This segregation plan will include an identification and record system for all commodities to ensure they are completely segregated and cannot be used to fulfill contracts awarded by USDA. Such segregation plan must be made available, within 10 days of contract award, to representatives of the Agricultural Marketing Service (AMS).
3. The contractor must maintain positive written documentation records evidencing 100 percent domestic origin to the grower level. Contractors must also ensure that the documentation provided by any sub-contractors demonstrates the same level of traceability. The burden of proof of compliance is on the contractor.

Documentation may include load or warehouse storage receipts for raw product (i.e., bin tags), product blend (formulation) records, product coding explanations, finished product warehousing records, shipping or payment records, or other documentation or evidence that clearly establishes the product's domestic origin.

4. Contractors must provide the domestic origin certification and supporting documentation records to representatives of the AMS Fruit and Vegetable Program, Specialty Crops Inspection Division (SCI) Division (USDA Inspector) when requesting inspection service. USDA Inspector will select and review at least one code for each purchase order to determine compliance with the Agency's domestic origin requirements.
5. Such records must be available for review by the Government in accordance with FAR 52.214-26. In the event of an audit, AMS auditors will examine as many codes as is necessary to verify compliance.
6. Self-certifications by contractors and sub-contractors will not be accepted.
7. Failure to observe this requirement may lead to suspension or debarment, contract termination, and penalties at Title 18, Section 1001 of the U.S. Code concerning falsification of information.

D. Kosher Products

Occasionally, USDA solicits offers to sell KOSHER products. Such products are identified on the solicitation with the letter "K" incorporated into the WBSCM material descriptions. Vendors must comply with the applicable dietary (KOSHER) laws as established by the "613 COUNCIL OF KASHRUTH" in the production of these commodity products. Vendors must not bid on these purchase units unless they can be properly certified.

Vendors receiving purchase order items identified as "KOSHER" must contact the Board of Jewish Education of Greater New York (BJENY) at telephone 646-472-5365 prior to manufacturing the commodity product to arrange for certification of compliance with the applicable dietary (kosher) laws.

E. Packing Season

All concentrated fruit juice for manufacturing must be from the current packing season/crop year, unless otherwise specified in the applicable Invitation.

F. Grades of Concentrated Fruit Juice for Manufacturing

Concentrated fruit juice for manufacturing must be U.S. Grade A (as defined in the U. S. Standards) unless otherwise specified in Section II, Individual Product Specifications, herein or the applicable Solicitation/IFB.

G. Fill of Container:

1. Contractor must meet the fill of container for the product as specified in the applicable U.S. Standard unless otherwise indicated herein. Each container must be filled as full as practicable. The product must occupy at least 90 percent of the container.
2. The average net weight must meet the net weight as printed on the label and the Individual Commodity Specification, Section II.

H. Packing, Labels and Packaging

The containers, labels and case markings shall meet the United States Standards for Condition of Food Containers (7 CFR Part 42).

Storage of concentrated fruit juice for manufacturing will be at 0 degrees or below. No acceptance of product will be made at destination above 30 degrees Fahrenheit.

Frozen products shall be packed in primary containers of food grade quality in Compliance with the Food Additives Regulations of the Federal Food and Drug Administration.

The primary containers must be suitably code-marked so that the product can be identified with related inspection certificates.

II. Individual Commodity Specifications

Grade - The grade of concentrated orange juice for manufacturing delivered under this Announcement shall meet the descriptions of U.S. Grade A, unsweetened, concentrated orange juice for manufacturing.

A. CONCENTRATED ORANGE JUICE FOR MANUFACTURING: TANKER TRUCKS

Origin:	100% Domestic Origin Required
Style:	Unsweetened
Color:	Minimum 37 score points
Flavor:	Minimum 37 score points
Brix Value/Acid Ratio:	Minimum 14.0:1 / Maximum 19.5:1
Fill Requirement:	Minimum 31,200 pounds solid Maximum 32,000 pounds solid (62.5 – 65.5 degrees brix)

Recoverable Oil: (% by Volume)	Minimum 0.015
Unit Size:	Tanker: Minimum of 31,200 pounds Solids (if dissolved at 16,800 pounds of water = 48,000 pounds a tanker)

Inspection: USDA in-plant inspection required.

CERTIFICATION: AMS Certificate of Quality and Condition for each tanker. Tanker seals shall be used in accordance with USDA procedures. Substitutions at reconstruction processing plants must be inspected and certified by USDA to meet the Commodity Specifications for quality requirements.

B. CONCENTRATED ORANGE JUICE FOR MANUFACTURING: DRUMS

Origin:	100% Domestic Origin Required
Style:	Unsweetened
Color:	Minimum 37 score points
Flavor:	Minimum 37 score points
Brix Value/Acid Ratio:	Minimum 14.0:1 / Maximum 19.5:1
Fill Requirement:	371 Pounds Solids per Drum (62.5 – 65.5 degrees brix)
Recoverable Oil: (% by Volume)	Minimum 0.015
Unit Size:	Truck: 26,712 Pounds Solids (72 drums @ 371 plus (+) or minus (-) 1 pound solids).

Insert two polyethylene liners 2 millimeter thickness. New or reconditioned drums and lids required.

Labeling:	Requirements of Drum Tags Name and Address of Company
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1. Drum Number
2. Brix Value /Acid Ratio
3. Brix to nearest tenth of a degree
4. Grade and Date Packed
5. Net Weight
6. Tare
7. Gross Weight

- Printed Tag Labeled, “Concentrated Orange Juice for Manufacturing”
- Copy of Drum Tag is to be inserted inside Drum showing identical Information shown above.

Inspection: USDA in-plant inspection required.

CERTIFICATION: AMS Certificate of Quality and Condition for each tanker. Tanker seals shall be used in accordance with USDA procedures. Substitutions at reconstruction processing plants must be inspected and certified by USDA to meet the Commodity Specifications for quality requirements.

Reconditioned drums are acceptable.

The construction of shipping containers shall be adequate to with-stand normal refrigerated shipping and cold storage and acceptable by common carriers for safe transportation to destinations.

Both tanker and drum trucks will be paid on a pounds per solid basis.

Payments: Payments will be based on a brix/volume delivered basis, i.e. assuming a 65 degree brix, payment for delivery of 48,000 lbs delivered would be calculated as follows:

$$\begin{aligned}
 &48,000 \div 10.977 \text{ (weight –in lbs- per U.S. gallon in air @} \\
 &20 \text{ degrees Celsius)*} = 4,372.78 \text{ gallons} \\
 &4,372.78 \times 7.135 \text{ (lbs of sucrose per gallon in air)*} \\
 &= 31,199.78 \text{ lbs of solids} \\
 &31,199.78 \times \text{Quoted Price Per Lb of Solids} \\
 &= \text{Amount Payable}
 \end{aligned}$$

I. Palletization Requirements – (For drums only)

1. Pallets

Product must be on 40 X 48 inch, non-reversible, flush stringer, and partial four-way entry. New pallets must be good quality wood. Used pallets must be No.1 hardwood or its equivalent in new softwood. **Broken or damaged pallets are unacceptable.** If pallet exchange is desired, the contractor shall arrange for pallet exchange with consignees. USDA is in no way responsible for arrangement of pallet exchange.

2. Unitization

Each delivery unit of concentrated fruit juice for manufacturing in drums must be unitized. The palletized product must be loaded in the conveyance in such a way that will prevent shifting and damage to the containers of the product. The pallet shall be banded to secure the drums.

III. Inspection and Checkloading

A. Requirements

Tankers are to be inspected on the day of shipping.

Drums – USDA inspection shall be made during on-line production of the product.

For Drums Only – Representatives of the AMS, Fruit and Vegetable Program, SCI Division (USDA Inspector) must perform the inspection and checkloading, See section IX. A of the Master Solicitation. **The cost of inspection, samples taken for inspection, mailing of review samples submitted for evaluation, and any chemical analysis required for testing shall be for the account of the Contractor.**

Inspection of concentrated fruit juice for manufacturing (drums) must be performed not more than 90 days prior to shipment. Whether each lot offered meets the product and container requirements of the contract must be determined on the basis of representative sample units. Representative sample units will be graded according to the Regulations Governing Inspection and Certification of Frozen Fruits and Vegetables and Related Products (7 C.F.R. part 52), and United States Standards for Condition of Food Containers (7 C.F.R. part 42.140), effective on the date of the Solicitation/IFB

B. Certification

Subject to See section IX.A of the Master Solicitation, the acceptability of the quality, weight, packaging, and checkloading of the product must be evidenced by certificates issued by the USDA Inspector.

No product shall be shipped unless the USDA Inspector informs the Contractor that a designated lot is acceptable. Notice by the USDA Inspector that a designated lot

scheduled for shipment does not meet requirements of the contract shall constitute rejection of such lot.

Contractors may request in writing that the USDA accept delivery of a lot shipped without certification. The USDA, at its option, may accept delivery, provided that the lot passes inspection by a USDA Inspector at the point of destination. If the USDA exercises this option, the contractor will be assessed a 10 percent liquidated damages and cost of inspection.

C. Procedures

The Contractor must give the USDA Inspector at least 7 days advance notice when scheduling inspection service. Prior to sampling, the Contractor must furnish the USDA Inspector with a list of codes and the approximate number of cases per code.

Contractors are encouraged to submit requests for inspection in writing with verifiable receipt notice, such as fax log, to alleviate possible mis-communication.

IV. Failure to Meet Specifications

Any lot which fails applicable specifications prescribed herein will be rejected as not acceptable for delivery. If any lot of frozen concentrated fruit juice fails to meet the product or packaging requirement, the Contractor may request in writing that USDA accept delivery of the lot. USDA may, at its option, accept delivery, provided that the purchase price is the contract price less a discount, to be determined by the Contracting Officer.

V. Exhibits**Exhibit 1**

Degrees Brix or Per Cent By Weight Sucrose	Apparent Specific Gravity 20°/20°C.	Weight Per Liter In Air at 20°C. (Grams)	Grams of Sucrose Per Liter In Air	Weight Per U.S. Gallon In Air at 20°C. (Pounds)	Pounds of Sucrose Per Gallon In Air
60.0	1.28908	1285.4	771.27	10.727	6.436
.1	.28966	1286.0	772.90	.732	.450
.2	.29025	1286.6	774.54	.737	.464
.3	.29084	1287.2	776.18	.742	.477
.4	.29143	1287.8	777.82	.747	.491
.5	.29203	1288.4	779.47	.752	.505
.6	.29262	1289.0	781.12	.757	.519
.7	.29321	1289.6	782.77	.762	.533
.8	.29380	1290.2	784.41	.767	.546
.9	.29439	1290.8	786.06	.772	.560
61.0	1.29498	1291.3	787.71	10.777	6.574
.1	.29559	1291.9	789.37	.781	.587
.2	.29618	1292.5	791.02	.786	.601
.3	.29677	1293.1	792.68	.791	.615
.4	.29736	1293.7	794.33	.796	.629
.5	.29796	1294.3	795.99	.801	.643
.6	.29855	1294.9	797.65	.806	.656
.7	.29915	1295.5	799.21	.811	.670
.8	.29975	1296.1	800.97	.816	.684
.9	.30034	1296.7	802.64	.821	.698
62.0	1.30093	1297.3	804.31	10.826	6.712
.1	.30153	1297.9	805.97	.831	.726
.2	.30212	1298.5	807.64	.836	.740
.3	.30273	1299.1	809.31	.841	.754
.4	.30334	1299.7	810.99	.846	.768
.5	.30393	1300.3	812.66	.851	.782
.6	.30453	1300.9	814.34	.856	.796
.7	.30513	1301.5	816.01	.861	.810
.8	.30573	1302.1	817.69	.866	.824
.9	.30633	1302.7	819.37	.871	.838
63.0	1.30694	1303.3	821.05	10.876	6.852

.1	.30754	1303.9	822.73	.881	.866
.2	.30815	1304.5	824.42	.886	.880
.3	.30875	1305.1	826.10	.891	.894

Exhibit 1-1

Degrees Brix or Per Cent By Weight Sucrose	Apparent Specific Gravity 20°/20°C.	Weight Per Liter In Air at 20°C. (Grams)	Grams of Sucrose Per Liter In Air	Weight Per U.S. Gallon In Air at 20°C. (Pounds)	Pounds of Sucrose Per Gallon In Air
63.4	1.30936	1305.7	827.79	10.896	6.908
.5	.30994	1306.3	829.47	.901	.922
.6	.31055	1306.9	831.16	.906	.936
.7	.31117	1307.5	832.85	.911	.950
.8	.31117	1308.1	834.55	.916	.964
.9	.31237	1308.7	836.24	.921	.979
64.0	1.31297	1309.3	837.93	10.926	6.993
.1	.31359	1309.9	839.83	.931	7.007
.2	.31418	1310.5	841.33	.936	7.021
.3	.31479	1311.1	843.03	.941	7.035
.4	.31540	1311.7	844.73	.946	7.049
.5	.31600	1312.3	846.43	.951	7.063
.6	.31661	1312.9	848.13	.956	7.078
.7	.31723	1313.5	849.84	.961	7.092
.8	.31784	1314.1	851.55	.967	7.107
.9	.31845	1314.7	853.26	.972	7.121
65.0	1.31905	1315.3	854.96	10.977	7.135
.1	.31966	1315.9	856.68	.982	.149
.2	.32028	1316.5	858.39	.987	.164
.3	.32089	1317.1	869.11	.992	.178
.4	.32150	1317.8	861.82	.997	.192
.5	.32210	1318.4	863.54	11.002	.206
.6	.32271	1319.0	865.25	11.007	.210
.7	.32332	1319.6	866.97	11.012	.235
.8	.32393	1320.2	868.69	11.017	.249
.9	.32455	1320.8	870.42	11.022	.263
66.0	1.32516	1321.4	872.14	11.027	7.278
.1	.32577	1322.0	873.86	.033	.293

.2	.32638	1322.6	875.58	.038	.307
.3	.32699	1323.3	877.31	.043	.322
.4	.32759	1323.9	879.03	.048	.336
.5	.32820	1324.5	880.77	.053	.350
.6	.32884	1325.1	882.50	.058	.365

R=95%

Exhibit 1-2

Degrees Brix or Per Cent By Weight Sucrose	Apparent Specific Gravity 20°/20°C.	Weight Per Liter In Air at 20°C. (Grams)	Grams of Sucrose Per Liter In Air	Weight Per U.S. Gallon In Air at 20°C. (Pounds)	Pounds of Sucrose Per Gallon In Air
66.7	1.32945	1325.7	884.24	11.063	7.379
.8	.33007	1326.3	885.98	.068	.393
.9	.33068	1326.9	887.71	.073	.408
67.0	1.33129	1327.6	889.44	11.079	7.423
.1	.33192	1328.2	891.19	.084	.437
.2	.33254	1328.8	892.94	.089	.452
.3	.33315	1329.4	894.68	.094	.466
.4	.33377	1330.0	896.42	.099	.481
.5	.33438	1330.6	898.17	.104	.495
.6	.33500	1331.3	899.92	.110	.510
.7	.33562	1331.9	901.67	.115	.525
.8	.33625	1332.5	903.43	.120	.539
.9	.33686	1333.1	905.18	.125	.554
68.0	1.33748	1333.7	906.93	11.130	7.568
.1	.33810	1334.3	908.68	.135	.583
.2	.33872	1335.0	910.44	.140	.597
.3	.33935	1335.6	912.20	.146	.613
.4	.33997	1336.2	913.96	.151	.627
.5	.34059	1336.8	915.72	.156	.642
.6	.34121	1337.4	917.48	.161	.656
.7	.34183	1338.1	919.24	.166	.671
.8	.34245	1338.7	921.01	.172	.686
.9	.34309	1339.3	922.78	.177	.701
69.0	1.34371	1339.9	924.55	11.182	7.716

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.1	.34433	1340.6	926.32	.187	.730
.2	.34495	1341.2	928.09	.192	.756
.3	.34558	1341.8	929.86	.198	.760
.4	.34621	1342.4	931.64	.203	.775
.5	.34684	1343.1	933.41	.208	.790
.6	.34746	1343.7	935.19	.213	.804
.7	.34809	1344.3	936.97	.218	.819
.8	.34871	1344.9	938.75	.224	.834
.9	.34934	1345.5	940.53	.229	.849

R=95%