

2014

THE Country Malt Group

Your Complete Brewing Solution

North American Distributors for Thomas Fawcett Sons, Best Malz and Malteries Franco-Belges



Canada Malting
Great Western Malting
Bairds Malt
Best Malz
Briess Malt
Malteries Franco-Belges
Thomas Fawcett & Sons Malting
Brewer's Grains, Spices and Sugars
Dark Candi Belgian Candi Sugars
Black Swan Honey-Comb Barrel Alternatives
Barrel Mill Wood Infusion Spirals
Five Star Chemicals
Hopunion Hops

Country Malt Group Regions

VANCOUVER, BC

CALGARY, AB

VANCOUVER, WA
Portland Area

HAYWARD, CA
San Francisco Area

DENVER, CO
Denver Area

SOUTH HOLLAND, IL
Chicago Area

HICKORY, NC
Charlotte Area

CHAMPLAIN, NY
Burlington/Montréal Area

1-866-310-8694

1-800-496-7732

1-866-428-1438

1-888-569-0044

1-888-368-5571

www.countrymaltgroup.com

The Country Malt Group is the bagged malt and special product distribution arm of Great Western Malting Company and Canada Malting Company Ltd.



Welcome to the Country Malt Group!

As a North America based distribution company, we are committed to bringing you a wide product range, a high level of service, and competitive pricing at a warehouse location near you.

Our dedicated sales and support staff understands the importance of excellent ingredients, product knowledge, and the expertise which are involved in making great beers. We would like to be a part of that formula by supplying our quality ingredients to you.

We hope that our sales book will assist you in finding just what you need. After you have had an opportunity to review our sales book, I encourage you to contact your local sales manager with any questions.

Thank you again for your interest. We look forward to being of service to you soon!

Sincerely,

THE COUNTRY MALT GROUP

A handwritten signature in black ink, appearing to read 'Kelly J. Kuehl', is written over the printed name.

Kelly J. Kuehl - Director of Sales - North America



COUNTRY MALT GROUP HEADQUARTERS

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Patrick La Zelle - Eastern Division Sales Manager
Phone: 609-424-7189
patrick.lazelle@countrymalt.com
Sales Territory: Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Rhode Island, Virginia, Washington DC and West Virginia

CMG SOUTHEAST - Hickory, NC - 1-888-569-0044

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Hickory, NC 28601

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330 West Armory Drive
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christopher.seitz@countrymalt.com
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CMG SOUTH CENTRAL - Denver, CO - 1-800-496-7732

Aspen Distribution Inc.
10875 E 40th Avenue
Denver, CO 80239

Toby Tucker - South Central Sales Manager
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CMG PACIFIC NORTHWEST - Vancouver, WA - 1-800-496-7732

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CMG WEST - Hayward, CA - 1-800-496-7732

Prism Team Service
1961 Stearman Avenue
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Jon Graber - Pacific West Sales Manager
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CMG WESTERN CANADA - 1-866-310-8694

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Don Moore
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CMG EASTERN CANADA - 1-888-368-5571

16 Beeman Way
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Eastern Canada Sales Manager - Country Malt Group / Canada Malting
Phone: 647-461-2143
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Sales Territory: Ontario, Quebec, New Brunswick, P.E.I., Nova Scotia, Maine, New Hampshire, Vermont



Customer Service

Customer service and order processing personnel are available between 8 AM and 5 PM EST for the East, Midwest and Southeast and between 8 AM and 5 PM PST for the South Central, West and Pacific Northwest, Monday through Friday with the exception of the following holidays: New Year's Day (January 1), President's Day (February 18), Memorial Day (May 27), Independence Day (July 4), Labor Day (September 2), Independence Day (July 4), Labor Day (September 2), Thanksgiving (November 28-29) and Christmas (December 25-26).

Pricing

All prices are F.O.B. our warehouse. We reserve the right to change prices without prior notice.

All malt products are available in either whole kernel or milled form. Please allow an additional 1-3 days for milling.

Prices are discounted according to the total malt ordered on a single order.

**PLEASE NOTE – All prices are subject to change without notice.
Please check our web site – www.countrymaltgroup.com – for current prices.**

Credit

A credit application with a personal guarantee must be completed in order for credit to be established. Failure to comply with credit terms may result in revocation of credit privileges. All dealings between parties shall be governed by and interpreted in accordance with the laws of New York. In the event the account is placed for collection, customer agrees to pay the collection accordance with the laws of fees of 25% of amount owed.

For new customers, please allow 1 - 3 business days for credit approval upon receipt of completed credit application. Pre-payment may be required.

Past due payments must be received before new orders can be released for delivery.

Prepayments

There are several payment options for our prepay customers: Credit Card, Wire Transfer, Check or Money Order.

Freight

Freight terms are prepaid and charge, unless otherwise instructed. The following items need to be requested at the time of order and may have an extra charge:

- » Specific delivery dates and times
- » Lift Gate
- » Pallet Jack
- » Pre-Arrival Call

Flat Rate Pallet Programs

Discount programs are established with numerous LTL (less than truckload) carriers. A carrier with the best rate for shipping destination will be assigned, unless otherwise requested or indicated.

Our pallet rates are the maximum you will pay per pallet. We can ship up to 2,200 pounds (40-42 bags) per pallet.

Additional freight fees include:

- » Fuel Surcharge (FSC) based on current published rate. Rates will vary. A current average has been 20%.
- » Hazardous Materials Transport Fees (\$15 per order).
- » Lift Gate Delivery (\$75 maximum).
- » We do not charge a fee for pallets.

Receiving Bagged Malt

Before signing the shipment Bill of Lading, each bag and / or pallet must be inspected. Look for torn or broken bags and insure every bag and pallet is accounted for. You can reference the pallet contents sheet attached to each pallet. If any problems arise:

- » Please note how many bags were shorted, broken, or any other circumstances on the Bill of Lading before signing.
- » When possible, take photos of the damaged pallets and products.
- » Call the Country Malt Group (1-866-428-1438) within 72 hours to report any issues.
- » Make sure any employees involved in unloading your shipment follow these procedures.

Malt Storage

All grain suppliers do their utmost to provide a product that is insect free. However, once the product leaves their plant or warehouse, it is beyond their control. We recommend the following preventive measures:

- » Inspect your malt storage area at regularly scheduled intervals. This is of particular importance when the room temperature is above 64 °F.
- » Malt should be stored in a clean, cool, dry area off of the ground and away from walls.
- » To reduce the likelihood of pest activity, you may choose to fumigate your storage area periodically.
- » For best results, we recommend using all milled malts within 3 months and whole kernel malts within 6 months of receipt.

Receiving Bulk Malt

To ensure the best quality of malt, we suggest the following:

- » Ask the driver for documentation of the trailer pre-load cleanout.
- » Inspect the condition of the malt trailer before unloading.
- » Insist upon a slow and steady load-out of malt into the silo. We suggest a load-out rate of no greater than 4 psi.
- » The bill of lading should not be signed until your malt is fully unloaded and inspected.
- » The driver is required to note the unload pressure and unload time before it is signed by the receiver. Problems should be noted on the Bill of Lading.
- » If you have any questions at the time of unload, do not hesitate to contact us. The driver must wait if you have any concerns.

Malt Analysis

- » Malt analysis reports are available through our on-line Malt Analysis program at www.countrymaltgroup.com
- » Bulk malt analysis reports are automatically e-mailed or faxed without request.

Malt



Great Western Malting Co.

Please Note - Not All Malts Are Available In All Markets.

Founded in 1934, Great Western Malting is the oldest malting company in the Western United States, operating malt plants in Vancouver, Washington and Pocatello, Idaho.

With the capability to load railcars, trucks, bulk vessels and containers, Great Western Malting supplies brewers, distillers and food processors in the United States, Canada, Asia and South America with the highest quality malts.

<u>Item ID</u>	<u>Brewers Malt</u>	<u>Color °L</u>	<u>Moisture % Max.</u>	<u>Protein Total Max.</u>	<u>Extract CG Dry Min.</u>
GW-COS2	Colorado Select 2-Row	1.8 - 2.2	4.0	12.5	80.0
GW-ORS2	Oregon Select 2-Row	1.8 - 2.2	4.0	12.5	80.0
GW-WAS2	Washington Select 2-Row	1.8 - 2.2	4.0	12.5	80.0
GW-2ROW	Premium 2-Row	1.8 - 2.2	4.0	12.5	80.0
GW-NWP2	Northwest Pale Ale	2.6 - 3.0	4.0	12.5	80.0
GW-SPIL	Superior Pilsen	1.4-1.9	4.1	11.0	80.0
GW-WHEA	Wheat Malt	3.0-4.0	4.5	11.2	85.0
GW-UMW	Unmalted Wheat				
GW-CWHT	Crystal Wheat Malt	40 - 50	5.0	12.0	76.0
GW-RYEM	Rye Malt	2.6 - 3.0	4.0	12.5	80.0
<u>Color Malt</u>					
GW-VIEN	Vienna Malt	3.0 - 4.0	4.1	12.5	80.0
GW-MUNH	Munich Malt	9.0 - 11.0	4.5	12.1	81.0
GW-DEXT	DextraPils®	< 1.5	n/a	n/a	n/a
GW-MELN	Melanoidin Malt	25 - 35	4.5	12.1	81.0
<u>Crystal Malt</u>					
GW-C15	2-Row Crystal 15	13 - 17	9.0	12.5	70.0
GW-C30	2-Row Crystal 30	27 - 33	8.0	12.5	70.0
GW-C40	2-Row Crystal 40	35 - 45	7.0	12.5	70.0
GW-C60	2-Row Crystal 60	55 - 65	6.0	12.5	70.0
GW-C75	2-Row Crystal 75	70 - 80	6.0	12.5	70.0
GW-C120	2-Row Crystal 120	115 - 125	5.0	12.5	70.0
GW-C150	2-Row Crystal 150	145 - 155	4.0	12.5	70.0
<u>Roasted Malt & Barley</u>					
GW-CHOC	Chocolate	300-400			
GW-BLCK	Black	450-550			
GW-RSTB	Roasted Barley	450-550			
<u>Certified Organic Malts</u>					
GW-O2RP	Organic 2-Row	1.8-2.2	4.50	12.5	80.0
GW-OWHT	Organic Wheat	3.0-4.0	4.50	13.0	80.0
GW-OMUN	Organic Munich	9.0-11.0	4.50	12.5	79.0
GW-OC15	Organic Crystal 15	13-17	9.0	12.5	70.0
GW-OC40	Organic Crystal 40	35-45	7.0	12.5	70.0
GW-OC60	Organic Crystal 60	55-65	6.00	12.5	77.0
GW-OC120	Organic Crystal 120	115-125	5.0	12.5	70.0
GW-OCHOC	Organic Chocolate Malt	300-400			
GW-OBLCK	Organic Black Malt	450-550			
GW-ORSTB	Organic Roasted Barley	450-550			

All analysis information is "typical." Actual analysis will be provided with shipment or may be found on our Lot Analysis program at our web site - www.countrymaltgroup.com

Malt



Please Note - Not All Malts Are Available In All Markets.

Established in 1902, Canada Malting Company is one of the oldest and most well established malting companies worldwide. As a leader in the malting industry, we service the needs of a wide range of customers, from the largest multi-national organizations to the smallest of craft brewers.

We understand that the best quality malt comes from the best quality barley. With this understanding, we are continually building relationships with our local growers. Additionally, we own and operate our own grain elevators in key barley producing areas, allowing us to get even closer to our farmers and the best quality barley.

<u>Item ID</u>	<u>Brewers Malt</u>	<u>Color °L</u>	<u>Moisture % Max.</u>	<u>Protein Total Max.</u>	<u>Extract CG Dry Min.</u>
CM-SPIL	Superior Pilsen	1.4-1.9	4.1	11.0	80.0
CM-PALE	Superior Pale Ale	2.0-3.5	4.1	12.5	80.0
CM-2ROW	Canadian 2-Row	1.5-2.1	4.1	12.5	80.0
CM-6ROW	Canadian 6-Row	1.5-2.1	4.1	13.0	80.0
CM-WHET	Wheat Malt	1.5-2.5	4.5	13.0	80.0
<u>Color Malt</u>					
CM-MUNH	Munich Malt	6.0-10.0	4.1	12.50	80.0
CM-RYEM	Rye Malt	1.8- 3.2	4.1	12.00	81.0
<u>Distiller's Malt</u>					
CM-DIST	Distiller's Malt	1.4-2.1	4.1	13.5	80.0

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Please Note - Not All Malts Are Available In All Markets.

Gambrinus Malting Corporation has the distinction of being the smallest malting house in North America. The company produces about 6,200 US tons of malt each year

The malthouse originally belonged to the Schlossquell Brewery of Heidelberg, Germany. In 1992 the malthouse was dismantled and shipped to Armstrong, B.C., Canada where it still resides today producing some of the finest Canadian 2-Row malts available.

<u>Item ID</u>	<u>Brewers Malt</u>	<u>Color °L</u>	<u>Moisture % Max.</u>	<u>Protein Total Max.</u>	<u>Extract CG Dry Min.</u>
GB-PILS	Pilsen	1.3-1.8	4.0	9.9	80.0
GB-PALE	Pale Ale Malt	1.8-2.8	4.5	10.9	80.0
GB-ESB	ESB Pale	3-4	4.0	10.9	80.0
<u>Color Malt</u>					
GB-VIEN	Vienna Malt	5-7	4.0	11.5	80.0
GB-MUNH10	Munich Light (90)	9.5-10.5	4.0	11.5	81.0
GB-MUNH30	Munich Dark (100)	30-35	4.0	11.5	81.0
GB-HONY	Honey Malt	20-25	4.0	11.5	80.0

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Malt



Please Note - Not All Malts Are Available In All Markets.

Since 1876, Briess Malt & Ingredients Company has been supplying the brewing community with the highest quality malts in the industry. And for the past four decades they've distinguished themselves by developing the most extensive line of specialty malts produced by any malting company in the world.

Item ID	Brewers Malt	Color °L	Moisture % Max.	Protein Total Max.	Extract CG Dry Min.
BM-5303	Pilsen Malt	1.0	4.5	11.3	80.5
BM-5298	2-Row Brewers Malt	1.8	4.0	12.0	80.5
BM-5305	Organic 2-Row Brewers Malt	1.8	4.0	12.0	80.5
BM-5294	6-Row Brewers Malt	1.8	4.5	13.0	78.0
BM-5301	Pale Ale Malt	3.5	4.0	11.7	80.0
BM-5317	Wheat Malt, White	2.5	4.0	12.0	85.0
BM-5315	Wheat, Raw White	2.0	12.0	10.0	80.0
BM-5323	Wheat Malt, Red	2.3	4.0	13.0	81.0
BM-6582	Wheat, Red Raw	2.0	12.0	10.0	80.0
High Temp Kilned Malts					
BM-5353	Vienna Malt	3.5	3.8	13.0	80.0
BM-6659	Goldpils® Vienna Malt	3.5	3.5	12.0	80.0
BM-5355	Ashburne® Mild Malt	5.3	3.5	11.7	79.0
BM-5344	Bonlander® Munich Malt	10	3.3	11.7	78.0
BM-5346	Aromatic Malt	20	2.5	11.7	77.0
BM-5337	Munich Malt 10L	10	3.3	13.0	76.0
BM-5342	Munich Malt 20L	20	3.0	13.0	74.0
BM-5339	Organic Munich Malt	10	3.3	11.7	78.0
Caramel Malts					
BM-5357	Caramel Malt 10L	10	7.0		75.0
BM-5405	2-Row Caramel Malt 10L	10	7.0		75.0
BM-5360	Caramel Malt 20L	20	6.0		73.0
BM-5359	Organic Caramel Malt 20L	20	6.0		73.0
BM-5407	2-Row Caramel Malt 30L	30	5.5		73.0
BM-5367	Caramel Malt 40L	40	5.5		73.0
BM-5409	2-Row Caramel Malt 40L	40	5.5		73.0
BM-5374	Caramel Malt 60L	60	5.5		73.0
BM-5411	2-Row Caramel Malt 60L	60	5.5		73.0
BM-5384	Organic Caramel Malt 60L	60	5.5		73.0
BM-5378	Caramel Malt 80L	80	4.5		72.0
BM-5417	2-Row Caramel Malt 80L	80	4.5		73.0
BM-5382	Caramel Malt 90L	90	4.0		72.0
BM-5386	Caramel Malt 120L	120	3.0		70.0
BM-5415	2-Row Caramel Malt 120L	120	3.0		70.0
BM-5388	Organic Caramel Malt 120L	120	3.0		70.0
BM-5408	Caramel Vienne 20L	20	4.5		73.0
BM-5413	Caramel Munich 60L	60	3.5		75.5
Carapils® Malts					
BM-5347	Carapils® Malt	1.3	6.5		73.0
BM-5419	2-Row Carapils® Malt	1.5	6.5		73.0
BM-5350	Organic Carapils® Malt	1.3	6.5		73.0
Specialty Malts					
BM-5351	Victory® Malt	28	2.5		73.0
BM-5398	Special Roast Malt	50	2.5		72.0
BM-5446	Extra Special Malt	130	3.5		73.0
BM-5332	Rye Malt	3.7	4.0	12.5	76.0
Smoked Malt					
BM-6620	Smoked Malt	5.0	6.0	12.0	80.5
Dark Roasted Malts					
BM-5400	Chocolate Malt	350	6.0		73.0
BM-5441	2-Row Chocolate Malt	350	5.5		75.0
BM-5404	Organic Chocolate Malt	350	5.5		75.0
BM-5444	Dark Chocolate Malt	420	5.5		72.0
BM-5390	Black Malt	500	6.0		70.0
BM-5422	2-Row Black Malt	500	6.0		71.0
BM-6412	Organic Black Malt	500	6.0		71.0
Roasted Barley					
BM-5393	Roasted Barley	300	5.0		72.0
BM-5395	Organic Roasted Barley	300	5.0		
BM-5396	Black Barley	500	6.0		70.0
BM-6459	Midnight Wheat Malt	550	6.5		
BM-6533	Blackprinz® Malt	500	6.0		
Maltster's Reserve Series					
BM-6457	Caracrytal® Wheat Malt	45	4.0		78.0
BM-6461	Carabrown® Malt	55	2.2		79.0

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Malt



Please Note - Not All Malts Are Available In All Markets.

Headquartered in Heidelberg, Best Malz are produced in strict compliance with the purity provisions of the German Reinheitsgebot of 1516. All of their malts are produced from the highest quality brewing barley and wheat.

Item ID	Brewers Malt	Color °L	Moisture % Max.	Protein Total Max.	Extract CG Dry Min.
BZ-HDBR	Heidelberg Malt	1 - 1.5	4.0	11.5	81.5
BZ-PILS	Pilsen	1.4 -2	4.0	11.5	81.5
BZ-WHT	Pale Wheat	1.6 - 2.3	5.0	13.5	82.5
BZ-DWHT	Dark Wheat	5-8	5.0	13.5	82.5
Color Malt					
BZ-VIEN	Vienna	3-5	4.0	11.0	80.0
BZ-MUNH	Light Munich	6-8	6.0	11.0	80.0
BZ-DMUN	Dark Munich	9-12	4.0	11.0	80.0
BZ-REDX	Red X	11-13	4.0	13.0	80.0
BZ-ARO	Aromatic Malt	16-23	4.0	11.0	75.0
Caramel Malt					
BZ-CRPL	Caramel Malt Pils	1.5 -3	6.0	11.5	82.5
BZ-LCRM	Caramel Malt Light	8 - 16	6.0	11.5	82.5
BZ-CRM1	Caramel Malt I	30-40	6.0	11.5	82.5
BZ-CRM2	Caramel Malt II	60-70	6.0	11.5	82.5
Special Malt					
BZ-CHIT	Chit Malt	1.5 - 2.3	5.0	10.5	72.5
BZ-MELN	Melanoidin Malt	20-30	4.0	11.5	72.5
BZ-ACID	Acidulated Malt	1.8 -3.1	4.0	11.5	
BZ-SMOK	Smoked Malt	2.5 -4.0	4.0	12.0	78.0



Located in the town of Prostejov, situated in the Northwestern part of the Hana region of the Czech Republic, Prostejov Malting was founded in 1869. Locally grown barley and modern malting technology ensure high quality malt.

Item ID	Brewers Malt	Color °L	Moisture % Max.	Protein Total Max.	Extract CG Dry Min.
CZ-PILS	Pilsen	2.0	3.5	12.0	82.0
CZ-MUNH	Munich	6.5	3.5	12.0	82.0



All of MFB's base malts are made from highly modified premium two-row French spring or winter barley and wheat. Caramelized and roasted malts are made from six-row barley or wheat carefully selected from the growing fields of France to ensure maximum aroma and taste.

Item ID	Brewers Malt	Color °L	Moisture % Max.	Protein Total Max.	Extract CG Dry Min.
FB-PILS	Pilsen	1.6-1.8	4.0	11.0	80.0
FB-PALE	Pale Ale	2.3-4.2	4.0	11.0	80.0
FB-WHET	Wheat	1.8-2.0	5.0	12.5	85.0
Color Malt					
FB-VIEN	Vienna	2.3-4.2	4.0	11.0	80.0
FB-SPAR	Special Aromatic	3.5-5	4.0	11.0	80.0
FB-SMUN	Munich	6-8	4.0	11.5	79.5
FB-DMUN	Dark Munich	11-17	4.0	11.5	79.5
Caramel Malt					
FB-CPIL	Caramel Pilsen Malt	8-12	6.0	11.5	85.0
FB-CVEN	Caramel Vienna Malt	19-23	6.0	11.5	77.0
FB-CWHT	Caramel Wheat Malt	22-31	6.0	12.5	78.0
FB-CAMB	Caramel Amber Malt	30-38	6.0	11.5	77.0
FB-C40	Caramel Munich 40	38-42	6.0	11.5	75.0
FB-C60	Caramel Munich 60	55-65	6.0	11.5	75.0
FB-C80	Caramel Munich 80	75-85	6.0	11.5	75.0
FB-C120	Caramel Munich 120	118-130	6.0	11.5	75.0
Roasted Malt					
FB-KAMB	Kiln Amber	15-23	3.0		
FB-KCOF	Kiln Coffee	150-180	3.0		
FB-BLCK	Kiln Black	450-585	3.0		
FB-CHOC	Chocolate	300-375	3.0		

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Malt



Please Note - Not All Malts Are Available In All Markets.

Established in 1823, Bairds Malt Ltd currently operates five malting sites across the UK. Their malt houses are located in the best malting barley growing regions in the UK so as such, they have a policy of using only locally grown barley.

Item ID	Brewers Malt	Color °L	Moisture % Max.	Protein Total Max.	Extract CG Dry Min.
BD-MOPA	Maris Otter	2.5-3.5	4.0	10.8	80.0
BD-PALE	Pale Ale	2.5-3.5	4.0	10.8	80.0
BD-PILS	Pilsen	1-2	4.5	10.5	80.0
Item ID Color Malt					
BD-VIEN	Vienna	2.7-4.0	4.0	10.8	80.0
BD-MUNH	Munich	4 - 6	4.0	10.8	80.0
Item ID Crystal Malt					
BD-LCRN	Light Carastan Malt	13-17	8.0		77.0
BD-CRSN	Carastan Malt	30-40	8.0		77.0
BD-CR55	Crystal Malt	50-60	4.0		77.0
BD-CR75	Dark Crystal Malt	70-80	4.0		77.0
BD-DCRL	Extra Dark Crystal Malt	135-165	4.0		77.0
Item ID Roasted Malt					
BD-CHLT	Chocolate Malt	450-500	3.0		72.0
BD-BLCK	Black Malt	500-600	3.0		68.0
BD-RSTB	Roasted Barley	500-600	3.0		68.0
Item ID Specialty Malt					
BD-HPET	Heavy Peated Malt	35-45 ppm	4.0		

Thomas Fawcett & Sons LTD.



The Fawcett family has been making malt in Castleford, West Yorkshire, England since the late 1780's. The company continues today as one of the oldest family controlled and managed business in the UK. Fawcett's prides itself on malting the finest Scottish barely varieties such as Golden Promise and traditional floor malted English Maris Otter and their small batch Color, Crystal and Roasted specialty malts are produced from hand selected lots of premium UK barley.

Item ID	Brewers Malt	Color °L	Moisture % Max.	Protein Total Max.	Extract CG Dry Min.
TF-MOPA	Maris Otter	2.3 - 3.0	3.0	9.5	80.5
TF-GPRM	Golden Promise	2.3 - 3.0	3.0	9.5	80.5
TF-HALC	Halcyon	2.3 - 3.0	3.0	9.5	80.5
TF-OPTC	Optic	2.3 - 3.0	3.0	9.5	80.5
TF-PRL	Pearl	2.3 - 3.0	3.0	9.5	80.5
TF-LAGR	Lager Malt	2.3 - 3.0	4.4	10.0	80.6
TF-WHET	Wheat Malt	1.9 - 2.3	4.0	10.5	82.5
Color Malt					
TF-AMBR	Amber	30-42	3.0	11.0	71.0
TF-CARM	CaraMalt	8-12	7.0	11.0	77.0
Crystal Malt					
TF-PCRY	Pale Crystal	20-27	7.0	11.0	77.0
TF-CRY45	Crystal Malt I	42-48	4.5	11.0	77.0
TF-CRY65	Crystal Malt II	62-68	4.5	11.0	77.0
TF-DCRY85	Dark Crystal Malt I	83-90	4.5	11.0	77.0
TF-DCRY120	Dark Crystal Malt II	118-124	4.5	11.0	77.0
Roasted Malt					
TF-BRWN	Brown Malt	52-65	3.0	11.0	71.0
TF-CHOC	Chocolate Malt	325-400	3.0	11.0	71.0
TF-PCHO	Pale Chocolate Malt	185-250	3.0	11.0	71.0
TF-BLK	Black Malt	410-500	3.0	11.0	71.0
TF-RSTB	Roasted Barley	410-500	3.0	11.0	70.0
Specialty Brewer's Malt					
TF-OATM	Oat Malt	1.9 - 2.3	4.0	11.0	70.0
TF-PEAT	Peated Malt (Phenol 10-14)	2.0 - 3.0	4.5	9.0	81.0
TF-RYEA	Rye Malt	2.5 - 3.0	3.0	9.0	80.8
TF-CRYE	Crystal Rye	70-80	4.5	11.0	70.0
TF-CWHT	Crystal Wheat	50-58	4.5	11.0	72.0
TF-RWHT	Roasted Wheat	360-400	5.0	11.5	73.5
TF-TWHT	Torrefied Wheat	1.0 - 2.5	7.0	11.0	80.0
TF-FLBR	Flaked Barley	1.0 - 2.5	9.0	11.0	70.0

All analysis information is "typical." Actual analysis will be provided with shipment or may be found on our Lot Analysis program at our web site - www.countrymaltgroup.com

Grains and Flour

Please Note - Not All Malts Are Available In All Markets.



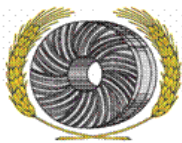
Item ID	Product Name	Package Size
BM-5031	Briess Insta Grains® Barley Flakes	25 pounds
BM-5075	Briess Insta Grains® Yellow Corn Flakes	25 pounds
BM-5055	Briess Insta Grains® Oat Flakes	25 pounds
BM-5094	Briess Insta Grains® Brown Rice Flakes	25 pounds
BM-5048	Briess Insta Grains® Rye Flakes	25 pounds
BM-5017	Briess Insta Grains® Red Wheat Flakes	25 pounds
BM-5012	Briess Insta Grains® Torrified Wheat	55 pounds



Item ID	Product Name	Package Size
BM-6572	Briess Distillers Malt Flour	50 pounds
BM-5170	Briess Malted Barley Flour	50 pounds
BM-5688	Briess Malted Rye Flour	50 pounds
BM-6583	Briess Raw Red Wheat Flour	50 pounds



Item ID	Product Name	Package Size
GP-FLBLY	OIO Flaked Barley	55 pounds
GP-FLCRN	OIO Flaked Corn	50 pounds
GP-FLOAT	OIO Flaked Oats	55 pounds
GP-FLRIC	OIO Flaked Rice	55 pounds
GP-FLRYE	OIO Flaked Rye	55 pounds
GP-FLWHT	OIO Flaked Wheat	55 pounds
GP-WLTWH	OIO Torrified Wheat	55 pounds
GP-RWWHT	OIO Unmalted White Wheat	55 pounds
SM-RYEM-GEN	OIO Unmalted Rye	55 pounds
GP-RICE	Riceland Rice Hulls	50 pounds



GRAIN MILLERS

Available In our Vancouver, WA, Hayward, CA and Denver, CO warehouses

Item ID	Product Name	Package Size
GM-ROLL	Grain Millers Rolled Oats	50 pounds
GM-ORQO	Grain Millers Organic Rolled Oats	50 pounds
GM-FLAK	Grain Millers Flaked Barley	50 pounds
GM-OFLAK	Grain Millers Organic Flaked Barley	50 pounds
GM-FWWH	Grain Millers Flaked Wheat	50 pounds
GM-FRYE	Grain Millers Flaked Rye	50 pounds
GM-OUMW	Grain Millers Organic Unmalted Wheat	50 pounds



Hops



Hopunion is a key supplier of premium hops and hop products for craft brewers worldwide, specializing in raw hop packaging and nitrogen evacuated pellet processing. They offer more than 80 domestic and import varieties from around the world.

USA

***All hop Alpha Acid and Co-Humulone percentages are targeted ranges. Actual percentages may vary.**

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90AHT	Ahtanum	Aroma	5 - 7	30 - 35	Amarillo®, Cascade
HU-90AMR	Amarillo® VGXP01	Aroma	8 - 11	21 - 24	Cascade, Centennial
HU-90APL	Apollo	Bittering	16 - 18	24 - 28	Nugget, Columbus
HU-90BRV	Bravo	Bittering	15 - 17	29 - 34	Columbus
HU-90BRG	Brewer's Gold	Bittering	8 - 10	40 - 48	Chinook, Galena, Nugget
HU-90CAS	Cascade	Aroma	4.5 - 7	33 - 40	Ahtanum™, Amarillo®
HU-90CNT	Centennial	Dual Purpose	9.5 - 11	28 - 30	Cascade, Chinook
HU-90CTP	Centennial Type	Dual Purpose	9.5 - 11	28 - 30	Cascade, Chinook
HU-90CHI	Chinook	Bittering	11 - 14	29 - 34	Nugget, Columbus
HU-90CIT	Citra™	Aroma	11 - 13	22 - 24	unknown
HU-90CLR	Cluster	Dual Purpose	5.5 - 8.5	36 - 42	Galena
HU-90CLM	Columbus	Dual Purpose	14 - 16	30 - 35	Chinook, Galena
HU-90COM	Comet	Bittering	9.4 - 12.4	38 - 42	Chinook, Nugget
HU-90CRY	Crystal	Aroma	3.5 - 5.5	20 - 26	Mt. Hood, Hersbrucker
HU-90FAL	Falconer's Flight®	Aroma	10 - 11	20 - 25	Citra™, Simcoe®, Sorachi Ace
HU-90F7CS	Falconer's Flight 7C's®	Aroma	9 - 10	20 - 25	Cascade, Centennial, Columbus
HU-90FGL	Fuggie	Aroma	4.5 - 5	25 - 32	UK Fuggie, Willamette
HU-90GLN	Galena	Dual Purpose	11 - 14	37 - 42	Brewer's Gold, Columbus
HU-90GLC	Glacier	Dual Purpose	5 - 7	11 - 13	Fuggie, Styrian Golding
HU-90GLD	Golding	Aroma	4 - 6	20 - 25	Fuggie, UK East Kent Golding
HU-90HLT	Hallertau	Aroma	3.5 - 5.5	18 - 25	Liberty, German Hallertau
HU-90HRZ	Horizon	Dual Purpose	11 - 13	16 - 19	Magnum
HU-90LBT	Liberty	Aroma	3 - 5	24 - 30	Hallertau, German Tradition
HU-90MGN	Magnum	Bittering	10 - 14	24 - 30	German Magnum, Horizon
HU-90MLM	Millennium	Bittering	14.5 - 16.5	28 - 32	Columbus, Nugget, Summit™
HU-90MTH	Mt Hood	Aroma	4 - 8	22 - 27	German Hallertau, Hersbrucker
HU-90NPT	Newport	Bittering	13 - 17	36 - 38	Galena, Nugget
HU-90NBR	Northern Brewer	Dual Purpose	8 - 10	20 - 30	German Northern Brewer, Chinook
HU-90NGT	Nugget	Bittering	12 - 14	24 - 30	Galena, Magnum
HU-90PLS	Palisade®	Aroma	5.5 - 9.5	24 - 29	Willamette
HU-90PLR	Perle	Aroma	7 - 9.5	27 - 32	German Perle, Northern Brewer
HU-90SAZ	Saaz	Aroma	3.5 - 4.5	24 - 28	Czech Saaz, Sterling
HU-90-SNT	Santiam	Aroma	5 - 7	20 - 24	German Spalt, German Tettngang
HU-90-SMC	Simcoe®	Dual Purpose	12 - 14	15 - 20	Summit™, Magnum
HU-90ACE	Sorachi Ace	Aroma	10 - 16	22 - 24	unknown
HU-90STR	Sterling	Aroma	6 - 9	22 - 28	Czech Saaz
HU-90SMT	Summit™	Aroma	16 - 19	26 - 33	Columbus, Warrior®, Millenium
HU-90TNG	Tettngang	Aroma	4 - 5	20 - 25	Fuggie, German Spalt, Santiam
HU-90VNG	Vanguard	Aroma	5 - 6	14 - 16	Hallertau, German Hersbrucker
HU90-WAR	Warrior®	Bittering	15 - 17	24 - 26	Columbus, Nugget,
HU-90WLT	Willamette	Aroma	4 - 6	30 - 35	Glacier, US Fuggie, US Tettngang,
HU-90ZYT	Zythos	Aroma	7 - 9	20 - 25	Amarillo®, Simcoe®

Hops

Australia

*All hop Alpha Acid and Co-Humulone percentages are targeted ranges. Actual percentages may vary.

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90AUST	Ella	Aroma	14 - 16	35 - 37	Unkown
HU-90GAL	Galaxy	Aroma	12 - 14	30 - 35	Citra
HU-90AUHE	Helga	Aroma	4.9 - 6.3	22 - 26	Hallertau Mittlefruh
HU-90AUPR	Pride of Ringwood	Bittering	9 - 10.5	30 - 34	Unkown
HU-90AUSU	Summer	Aroma	4 - 7	22 - 25	Unkown
HU-90AUSY	Sylva	Aroma	4.6 - 7.0	23 - 28	Saaz
HU-90AUTO	Topaz	Dual Purpose	15.5 - 18	47 - 49.5	Unkown

Czechoslovakia

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90GSZ	Saaz	Aroma	2 - 5	23 - 28	US Saaz, Sterling

France

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90FRAR	Aramis	Aroma	7 - 9	20 - 25	Strisselspalt
HU-90FSS	Strisselspalt	Aroma	3 - 5	20 - 25	Mt. Hood, Crystal

Germany

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90HBR	Hallertauer Hersbrucker	Aroma	2 - 5	18 - 25	French Strisselsplat, Mt. Hood
HU-90MTF	Hallertauer Mittlefruh	Aroma	3.5 - 5	18 - 28	German Tradition, Liberty
HU-90TRD	Hallertauer Tradition	Aroma	5 - 7	26 - 29	Liberty, German Hallerau
HU-90HRK	Herkules	Bittering	12 - 17	32 - 38	high alpha varieties
HU-90GMG	Magnum	Bittering	11 - 16	21 - 29	Columbus, Nugget, US Magnum
HU-45MRK	Merkur	Bittering	12 - 15	16 - 20	German Magnum, German Tradition
HU-90GNB	Northern Brewer	Dual Purpose	7 - 10	27 - 33	Columbus, Chinook, Galena
HU-90OPL	Opal	Aroma	5 - 8	13 - 17	Styrian Golding, East Kent Golding
HU-90GPR	Perle	Aroma	6 - 10	28 - 32	US Perle, Northern Brewer
HU-90GSR	Saphir	Aroma	2.4 - 5	12 - 17	Hallertau Mittlefruh
HU-90GRSM	Smaragd	Aroma	4 - 6		US Fuggle
HU-90GSP	Spalt	Aroma	2.5 - 5.5	22 - 29	US Saaz, US Tettnag
HU-90GSL	Spalt Select	Aroma	3 - 6.5	21 - 27	US Saaz, US Tettnag
HU-90GTT	Tettnanger	Aroma	3 - 6	22 - 29	German Spalt, German Select

New Zealand

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90NZGB	Green Bullet	Bittering	11 - 14	41 - 43	Styrian Golding
HU-90NZMO	Motueka	Aroma	6.5 - 8.5	28 - 30	Saaz
HU-90NSV	Nelson Sauvignon	Dual Purpose	12 - 13	23 - 25	Unkown
HU-90NZPA	Pacifica	Aroma	5 - 6	23 - 26	Hallertau Mittlefruh
HU-90NZPG	Pacific Gem	Bittering	13 - 16	37 - 40	Galena
HU-90NZPJ	Pacific Jade	Bittering	12 - 14	7 - 8	Cluster
HU-90NZSX	Southern Cross	Bittering	11 - 14	25 - 28	Fuggle
HU-90NZWA	Wakatu	Dual Purpose	6.5 - 8.5	28 - 30	Hallertau Mittlefruh
HU-90NZOWA	Wakatu - Organic	Dual Purpose	6.5 - 8.5	28 - 30	Hallertau Mittlefruh

Slovenia

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90AUR	Styrian Aurora	Aroma	7 - 9.5	22 - 26	Styrian Golding
HU-90BOB	Styrian Bobek	Aroma	3.5 - 7	27 - 31	Styrian Golding, Fuggle
HU-90SCL	Styrian Celeia	Aroma	3 - 6	26 - 29	Saaz, Styrian Golding
HU-90STG	Styrian Golding	Aroma	3 - 6	27 - 33	US Fuggle, UK Fuggle
HU-90SAGO	Styrian Savinski Golding	Aroma	3 - 4	27 - 33	Styrian Golding

United Kingdom

Item ID	Hop Variety	Brewing Usage	Alpha Acid %*	Co-Humulone %*	Possible Substitutions
HU-90BC	Bramling Cross	Aroma	5 - 7	33 - 35	UK Kent Golding, UK Progress
HU-90CHA	Challenger	Dual Purpose	5 - 9	20 - 25	Perle, Northern Brewer
HU-90EKG	East Kent Golding	Aroma	4 - 7	28 - 32	US Golding, WGV, UK Progress
HU-90FG	First Gold	Dual Purpose	6.5 - 8.5	31 - 36	Crystal, East Kent Golding
HU-90FT	Fuggle	Aroma	3 - 6	30 - 35	US Fuggle, Willamette
HU-90ND	Northdown	Dual Purpose	6 - 10	24 - 29	UK Challenger, Northern Brewer
HU-90PH	Phoenix	Dual Purpose	8 - 12	25 - 30	Challenger
HU-90PL	Pilgrim	Dual Purpose	9 - 13	36 - 38	Target, Challenger
HU-90PR	Progress	Aroma	4 - 7	25 - 30	East Kent Golding, Fuggle
HU-90SV	Sovereign	Dual Purpose	4 - 7	26 - 30	
HU-90TG	Target	Bittering	8 - 13	29 - 37	Fuggle, Willamette
HU-90EWG	WGV	Aroma	5 - 8	25 - 34	East Kent Golding, UK Progress

Brewing Sugars and Malt Extract

Please Note - Not All Malts Are Available In All Markets.

Brewing Sugars

Item ID	Product Name	Package Size	Product Description
BC-871-E-1	Brewer's Crystals	55pounds	Granulated corn syrup solids with dextrose mostly converted to maltose.
CR-DEXTR50	Dextrose	50 pounds	A reliable and efficient priming ingredient.
GLM-LACT55	Lactose	50 pounds	A mildly sweet, nonfermentable carbohydrate found only in milk.
CR-MLTO-50	Malto Dextrin	50 pounds	A nonfermentable, tasteless carbohydrate that adds smoothness to beers.
BC-875-E-1	Raw Sugar	50 pounds	Also known as demerara, turbinado. Yellow/golden colored, granulated.



Dried Malt Extract

Item ID	Product Name	Package Size	Product Description
BM-5760	Pilsen Light	50 pounds	The lightest colored brewer's grade malt extract available. 2°L.
BM-5748	Golden Light	50 pounds	Excellent light colored pure malt extract. 4°L.
BM-5756	Bavarian Wheat	50 pounds	Use alone or with specialty malts to brew wheat beers of all styles. 3°L.
BM-5752	Sparkling Amber	50 pounds	Rich malty, caramel-flavored extract. 10°L.
BM-5754	Traditional Dark	50 pounds	Intense, malty flavored extract. Excellent for color adjustment. 30°L.
BM-5727	Maltoferm A-6001	50 pounds	Made from 100% Briess Black Malt, making it a perfect colorant for beer. 500°L.
BM-5730	Maltoferm 10001 (Organic)	50 pounds	Made from 100% Briess Organic Pale malt. 2-6°L

Liquid Malt Extract

Item ID	Product Name	Package Size	Product Description
BM-5855	Pilsen Light	5 gallons	The lightest colored brewer's grade malt extract available. 2°L.
BM-5852	Pilsen Light	15 gallons	
BM-5383	Pilsen Light	55 gallons	
BM-5865	Golden Light	5 gallons	Excellent light colored pure malt extract. 4°L.
BM-5858	Golden Light	15 gallons	
BM-5860	Golden Light	55 gallons	
BM-5902	Bavarian Wheat	5 gallons	Use alone or with specialty malts to brew wheat beers of all styles. 3°L.
BM-5895	Bavarian Wheat	15 gallons	
BM-5897	Bavarian Wheat	55 gallons	
BM-6466	Munich	5 gallons	Rich, malty, amber colored colored extract. 8°L.
BM-6467	Munich	15 gallons	
BM-6345	Munich	55 gallons	
BM-5889	Sparkling Amber	5 gallons	Rich malty, caramel-flavored extract. 10°L.
BM-5884	Sparkling Amber	15 gallons	
BM-5885	Sparkling Amber	55 gallons	
BM-5878	Traditional Dark	5 gallons	Intense, malty flavored extract. Excellent for color adjustment. 30°L.
BM-5870	Traditional Dark	15 gallons	
BM-5872	Traditional Dark	55 gallons	
BM-5801	Maltoferm® A-6000	5 gallons	Made from 100% Briess Black Malt, making it a perfect colorant for beer. 500°L.
BM-5953	Maltoferm® 10000 (Organic)	5 gallons	Made from 100% Briess Organic Pale malt. 2-6°L
BM-5950	Maltoferm® 10000 (Organic)	55 gallons	

BriessSweet™ Brewing Syrups

Item ID	Product Name	Package Size	Product Description
BM-6162	White Sorghum Syrup 60DE	5 gallons	Functions as a gluten-free malt extract substitute.
BM-6163	White Sorghum Syrup 60DE	55 gallons	Functions as a gluten-free malt extract substitute.

BriessSweet™ Gluten Free Syrups

Item ID	Product Name	Package Size	Product Description
BM-6810	Clarified Brown Rice Syrup 42DE	5 gallons	Concentrated wort made from 100% brown rice.
BM-6531	Clarified Brown Rice Syrup 42DE	55 gallons	Concentrated wort made from 100% brown rice.
BM-6142	White Sorghum Syrup High Maltose	5 gallons	Concentrated wort made from 100% white sorghum grain.
BM-6167	White Sorghum Syrup High Maltose	55 gallons	Concentrated wort made from 100% white sorghum grain.

Candi Syrups and Sugars

Candi Syrup

Candi Syrup is produced from pure beet sugar which is boiled and concentrated. This process is repeated until the desired color and flavor is achieved.

Contains no molasses, artificial coloring agents or additives. All sugars are certified Kosher.



NEW!

American Dark 2 is a premium extra dark American candi syrup that is perfect for use in dark ales of all types.

Item ID	Product	Product Name
SP-AD2-57	5 gallon pail	American Dark 2 Candi Syrup
SP-AD2-D	55 gallon drum	American Dark 2 Candi Syrup
SP-AD2-T1	260 gallon tote	American Dark 2 Candi Syrup



Item ID	Package Size	Product Name	Product Description
HDC-DK1-CS	12 -1 pound packs	Dark Belgian Candi Syrup	DARK - Original caramelized sugar of traditional Belgian ales. This syrup is deep red/black in color. Its flavor is full of soft caramel, vanilla, plums and raisins. SRM: 80 or 157 EBC Usage: 1.032 PPG Extract: 78- 80%
DC-SY-DRK1	55 pounds	Dark Belgian Candi Syrup	
DC-SY-D1T1	2,640 pounds	Dark Belgian Candi Syrup	



Item ID	Package Size	Product Name	Product Description
HDC-DK2-CS	12 -1 pound packs	Dark 2 Belgian Candi Syrup	DARK 2 - This syrup's flavor is a mix of burnt sugar, figs, ripe fruit, toffee and dark chocolate. Highly fermentable.
DC-SY-DRK2	55 pounds	Dark 2 Belgian Candi Syrup	
DC-SY-D2T1	2,860 pounds	Dark 2 Belgian Candi Syrup	SRM: 100 or 197 EBC Usage: 1.032 PPG Extract: 78-80%



Item ID	Package Size	Product Name	Product Description
HDC-AMB-CS	12 -1 pound packs	Amber Belgian Candi Syrup	AMBER - Made using the same process as the Dark Syrup. Lighter in color with a less intense Candi Syrup flavor.
DC-SY-AMBR	55 pounds	Amber Belgian Candi Syrup	SRM: 40 Usage: 1.032 PPG Extract: 78-80%



Item ID	Package Size	Product Name	Product Description
HDC-CLR-CS	12 -1 pound packs	Clear Belgian Candi Syrup	CLEAR - Traditional light colored Candi Syrup, cooked briefly to achieve higher fermentability and to invert sugar.
DC-SY-CLER	55 pounds	Clear Belgian Candi Syrup	
DC-SY-CLT1	2,860 pounds	Clear Belgian Candi Syrup	SRM: 0 Usage: 1.032 PPG Extract: 78-80%

Soft Candi Sugar

Soft Candi Sugar is a moist sugar, which is produced during the Candi Syrup production process. Tiny, syrup saturated sugar crystals are formed in the Candi Syrup, which are then centrifuged from the syrup.



Item ID	Package Size	Product Name	Product Description
DC-BRWN	55 pound bag	Brown Soft Belgian Candi Sugar	BROWN - Dark Brown Soft Candi Sugar is full of Dark Candi Syrup flavor but has a higher sugar content and is easier for some brewers to use over a liquid sugar. Tech: SRM 40 10.32 PPG



Item ID	Package Size	Product Name	Product Description
DC-BLND	55 pound bag	Blond Soft Belgian Candi Sugar	BLOND - Soft and delicate Candi Syrup flavor with light color Tech: SRM 5 10.32 PPG

Rock Candi Sugar

Rock Candi Sugar is produced by allowing a superheated sugar solution to slowly cool. During cooling, rock sugar crystals grow on metal forms submerged in the syrup. The result is a highly purified sugar crystal with a small amount of candi syrup flavor trapped within the crystals.



Item ID	Package Size	Product Name	Product Description
DC-CR-CLEAR	55 pound bag	Belgian Candi Sugar - Clear	Gravity contribution: 1.046 ppg or 11.43 P/gal. No color, flavor or aroma contribution. Use to increase alcohol and dryness. 100% fermentable.
DC-CR-DARK	55 pound bag	Belgian Candy Sugar - Dark	Gravity contribution: 1.046 ppg or 11.43 P/gal. Slight color: <20SRM, very little flavor or aroma contribution. Use to increase alcohol dryness of beer.
DC-CR-XDKA	55 pound bag	Belgian Candy Sugar - Aromatic Dark	Gravity contribution: 1.046 ppg or 11.43 P/gal. In addition to adding fermentable sugar these crystals will provide color, aroma and flavor of molasses.
DP-CWHT-2	25 pound box	Belgian Candi Sugar - Rock - Clear	Imported from Belgium, this sugar is refined from cane sugar, and is 100% fermentable. Flavor contribution is neutral.
DP-CAMB-25	25 pound box	Belgian Candy Sugar Rock - Amber	Imported from Belgium, this sugar is refined from cane sugar. Will add flavor and alcoholic characteristic of Abbey style ale. 100% fermentable.

Spices, Spice and Hop Bags

Please Note - Not All Products Are Available In All Markets.

Spices

Item ID	Spice	Package Size
BC-1797-2	Chamomile - Whole Flower	1 pound
BC-1792-2	Cinnamon Sticks	1 pound
BC-1763-2	Coriander	1 pound
BC-1763-3	Coriander	5 pound
BC-1790-2	Elderberries	1 pound
BC-1770-2	Elderflowers	1 pound
BC-1795-2	Heather Tips - Dried	1 pound
BC-1795-3	Heather Tips - Dried	5 pound
BC-1766-2	Juniper Berry - Whole	1 pound
SH-LMON-1	Lemon Peel	1 pound
BC-1773-2	Licorice Root - Dried	1 pound
BC-1776-2	Orange Peel - Bitter	1 pound
BC-1776-4	Orange Peel - Bitter	5 pound
BC-1768-2	Orange Peel - Sweet	1 pound
BC-1768-4	Orange Peel - Sweet	5 pound
BC-1774-2	Paradise Seed	1 pound
BC-1760-2	Rose Hips	1 pound
BC-1772-2	Sarsaparilla	1 pound
BC-1777-2	Star Anise	1 pound
BC-1761-2	Woodruff - Dried	1 pound
BC-1769-2	Wormwood	1 pound

Dried whole Chamomile flowers, from USA.

Dried 3" Cinnamon sticks, Cinnamomum cassia from Indonesia.

Dried whole seeds of Coriander, Coriandrum sativa from USA.

Dried Elderberries, from Bulgaria. Bags are various weights.

Dried flowers of Elderberry, Sambucus nigra from Bulgaria.

Wild-harvested Scottish heather. Cut tips with leaf and flower.

Dried juniper berries, Juniperus communis from Albania.

Gives a citrusy, herbal aroma and flavor to Belgian ales.

Dried 1/4 cut Licorice Root, Glycyrrhiza glabra from Greece.

Dried peel of Curacao, or bitter oranges. From Morocco.

Dried peel of sweet oranges, Citrus Sinensis from Spain.

Wild-harvested in Ivory Coast, Africa. AKA "Grains of Paradise."

Dried, cut Rosehips, Rosa canina from Belgium.

Dried cut root of Sarsaparilla, Hemidesmus indicus from India.

Dried whole Star Anise, Illicium verum from China.

Dried whole Woodruff, Asperala odorata from Bulgaria.

Dried whole Wormwood, Artemisia absinthium from Bulgaria.

Bulk quantities of herbs and spices are available by drop shipment from Brewcraft USA. Inquire with your CMG sales representative.

Spice and Hop Bags

Item ID	Item Description	Item Size
OS1-LBBAG	1 LB Poly Bag	11" x 8"
OS-2LBBAG	2 LB Poly Bag	15" x 8"
OS-3LBBAG	3 LB Poly Bag	15" x 10"
OS-KEGBAG	Nylon Keg Bag	2" x 24"
BC-1594-A-1	Coolship Bag	24" x 72" Coarse
BC-1594-B-1	Coolship Bag	24" x 72" Fine
BC-1590-E-2	Nylon Drawstring Bag	15" x 23" Coarse
BC-1590-G-2	Nylon Drawstring Bag	15" x 23" Fine
BC-1596-2	Nylon Drawstring Bag	24" x 36" Coarse
BC-1590-F-2	Nylon Drawstring Bag	24" x 36" Fine
BC-1590-A-2	Nylon Straining Bag	23" x 24" Large Coarse
BC-1590-B-2	Nylon Straining Bag	23" x 24" Large Fine
BC-1590-C-2	Nylon Straining Bag	15" x 24" Small Coarse
BC-1590-D-2	Nylon Straining Bag	15" x 24" Small Fine



Fruit Puree, Fruit Flavors



Please Note - Not All Products Are Available In All Markets.

Oregon Fruit Products Co. produces real fruit purees for brewing beers and making mead with fresh, local, Oregon grown fruit and berries.

Oregon Fruit Products Fruit Puree - Aseptic

Oregon Fruit Product aseptic puree in box packaging is in a sterile, ready-to-use bag, so you can simply pour the fruit puree into your system without further processing. Their aseptic fruit purees can be shipped ambient and stored in your cooler or on your production floor, saving you substantial frozen transportation and storage costs.

<u>Item ID</u>	<u>Fruit Type</u>	<u>Package Size</u>
BC-1728-A-1	Red Raspberry Fruit Puree	42 pounds
BC-1728-C-1	Red Tart Cherry Fruit Puree	42 pounds
BC-1728-H-1	Blueberry Fruit Puree	42 pounds

Seedless, aseptic fruit puree. Suggested usage starting point is 5-7 pounds per barrel.

Oregon Fruit Products - Vintner's Harvest Fruit Puree

Use these high quality, 100% fruit, seedless purees to flavor beer. Can be used right from the can since they're packaged sterile.

<u>Item ID</u>	<u>Fruit Type</u>	<u>Package Size</u>
BC-1730-E-1	Apricot Fruit Puree	49 oz can
BC-1730-D-1	Blackberry Fruit Puree	49 oz can
BC-1730-C-1	Blueberry Vintner's Harvest Fruit Puree	49 oz can
BC-1730-B-1	Cherry Vintner's Harvest Fruit Puree	49 oz can
BC-1730-F-1	Peach Vintner's Harvest Fruit Puree	49 oz can
BC-1730-A-1	Raspberry Vintner's Harvest Fruit Puree	49 oz can

Fruit Flavors

Should be stored refrigerated @ 32-50°F. Usage varies widely. Suggested starting rate is 9-18 oz. per barrel. Artificial inclusion (if applicable) is at a rate less than .1%.

<u>Item ID</u>	<u>Fruit Type</u>	<u>Package Size</u>
BC-1705-A-2	Apple Natural Fruit Flavor	1 gallon
BC-1705-H-2	Apricot Natural & Artificial Fruit Flavor	1 gallon
BC-1705-B-2	Blackberry Natural Fruit Flavor	1 gallon
BC-1705-D-2	Blueberry Natural Fruit Flavor	1 gallon
BC-1705-E-2	Boysenberry Natural Fruit Flavor	1 gallon
BC-1705-C-2	Cherry Natural Fruit Flavor	1 gallon
BC-1705-K-2	Hazelnut Natural & Artificial Fruit Flavor	1 gallon
BC-1705-F-2	Peach Natural & Artificial Fruit Flavor	1 gallon
BC-1705-G-2	Raspberry Natural Fruit Flavor	1 gallon
BC-1705-L-2	Strawberry Natural Fruit Flavor	1 gallon

<u>Item ID</u>	<u>Fruit Type</u>	<u>Package Size</u>
BC-1705-A-3	Apple Natural Fruit Flavor	5 gallon
BC-1705-H-3	Apricot Natural & Artificial Fruit Flavor	5 gallon
BC-1705-B-3	Blackberry Natural Fruit Flavor	5 gallon
BC-1705-D-3	Blueberry Natural Fruit Flavor	5 gallon
BC-1705-E-3	Boysenberry Natural Fruit Flavor	5 gallon
BC-1705-C-3	Cherry Natural Fruit Flavor	5 gallon
BC-1705-K-3	Hazelnut Natural & Artificial Fruit Flavor	5 gallon
BC-1705-F-3	Peach Natural & Artificial Fruit Flavor	5 gallon
BC-1705-G-3	Raspberry Natural Fruit Flavor	5 gallon
BC-1705-L-3	Strawberry Natural Fruit Flavor	5 gallon

Yeast, Yeast Nutrient



Please Note - Not All Products Are Available In All Markets.

Liquid Brewers Yeast

All White Labs Yeast Strains Are Direct Shipped From White Labs

Item ID	Package Size	Yeast Type	
WLP001	1.6 liter	California Ale	Attenuation: 73-80% Flocculation: Medium Optimum Fermentation Temperature: 68-73°F Alcohol Tolerance: High
WLP002	1.6 liter	English Ale	Attenuation: 63-70% Flocculation: Very High Optimum Fermentation Temperature: 65-68°F Alcohol Tolerance: Medium
WLP005	1.6 liter	British Ale	Attenuation: 67-74% Flocculation: High Optimum Fermentation Temperature: 65-70°F Alcohol Tolerance: Medium
WLP300	1.6 liter	Hefeweizen	Attenuation: 70-75% Flocculation: Low Optimum Fermentation Temperature: 65-69°F Alcohol Tolerance: Medium
WLP810	1.6 liter	San Francisco Lager	Attenuation: 65-70% Flocculation: High Optimum Fermentation Temperature: 58-65°F Alcohol Tolerance: Medium-High
WLP830	1.6 liter	German Lager	Attenuation: 74-79% Flocculation: Medium Optimum Fermentation Temperature: 50-55°F Alcohol Tolerance: Medium

Dried Brewers Yeast



Item ID	Package Size	Yeast Type	
PC-MAURIALE	500 grams	Mauribrew Ale	This strain was selected based on its ability to produce English-style ales.
PC-MAURILAGER	500 grams	Mauribrew Lager	A bottom fermenting lager yeast that produces highly desirable flavor characteristics consistent with quality lager beer.
PC-MAURIWEISS	500 grams	Mauribrew Weiss	Mauribrew Weiss produces nice aroma of esters and contribute to complexity of German-style wheat beer.



Item ID	Package Size	Yeast Type	
LB-NALE	500 grams	Nottingham Ale	Produces low concentrations of fruity and estery aromas and has been described as neutral for ale yeast.
LB-WBS	500 grams	Windsor British Style	Beers created with Windsor are usually described as full-bodied, fruity English ales.
LB-MWB	500 grams	Munich Wheat	Can be used to produce wheat beers of the finest quality.
LB-DLY	500 grams	Diamond Lager	Provides true lager yeast performance together with the convenience & consistency of dry yeast.
LB-CBC1	500 grams	CBC-1	Especially selected for it's refermentation properties and is recommended for Cask and Bottle Conditioning.

Distillers Yeast - Dried



Item ID	Package Size		
50402	25kg bag	SPL International - TY48	Will ferment pure sugars to 20% ABV high quality alcohol base.

Yeast Nutrient

Item ID	Package Size	Nutrient Type	
HB-WLN1000-1	(1) 1 oz. vial	White Labs	Yeast nutrient which includes amino acids. A great supplement if your yeast is low in nitrogen.
WLN1000-20	(20) 1 oz. vials	White Labs	
BREWERY-WLN3000-1	(1) 10 gram pack	Servomyces	A nutritional yeast supplement.
WLN3000-20	(20) 10 gram packs	Servomyces	
WLN3500	(1) 500 gram pack	Servomyces	
BC-710-D-1	50 pounds	LeSaffre Yeastade-50	A nutritional yeast "energizer."

Wood Alternatives

Please Note - Not All Products Are Available In All Markets.



Honey Comb Barrel Alternatives

Black Swan's "Honey Comb" Barrel Alternative offers brewers a unique choice in wood extraction. Each Honey Comb is toasted for maximum "barrel aged flavor" in as little as six weeks.

Barrel Packs (medium toast)

Available in 5, 15 and 30 gallon pack sizes.

Wood species include: Cherry, Hickory, Hard Maple, Soft Maple, Red Oak, White Ash, White Oak, and Yellow Birch.

Tank Packs (medium toast) *tank packs are available as a drop ship item only direct from Black Swan

Available in 10, 15 and 30 barrel pack sizes.

Wood species include: Cherry, Hickory, Hard Maple, Soft Maple, Red Oak, White Ash, White Oak, and Yellow Birch.

Wood Species	5 gallon Item ID	15 gallon Item ID	30 gallon Item ID	10 barrel Item ID	15 barrel Item ID	30 barrel Item ID
Cherry Wood	BS-CHER-5	BS-CHER-15	BS-CHER-30	BS-CHERT-10	BS-CHERT-15	BS-CHERT-30
Hickory	BS-HICK-5	BS-HICK-15	BS-HICK-30	BS-HICKT-10	BS-HICKT-15	BS-HICKT-30
Maple (Hard)	BS-MAPL-5	BS-MAPL-15	BS-MAPL-30	BS-MAPLT-10	BS-MAPLT-15	BS-MAPLT-30
Maple (Soft)	BS-SMAP-5	BS-SMAP-15	BS-SMAP-30	BS-SMAPT-10	BS-SMAPT-15	BS-SMAPT-30
Red Oak	BS-ROACK-5	BS-ROACK-15	BS-ROACK-30	BS-ROACKT-10	BS-ROACKT-15	BS-ROACKT-30
White Ash	BS-WASH-5	BS-WASH-15	BS-WASH-30	BS-WASHT-10	BS-WASHT-15	BS-WASHT-30
White Oak	BS-WOAK-5	BS-WOAK-15	BS-WOAK-30	BS-WOAKT-10	BS-WOAKT-15	BS-WOAKT-30
Yellow Birch	BS-YBIR-5	BS-YBIR-15	BS-YBIR-30	BS-YBIRT-10	BS-YBIRT-15	BS-YBIRT-30



Wood Infusion Spirals

The Barrel Mill's Infusion Spirals are made of ultra premium American and French Oak - no sapwood, no bark, no knots. Their unique product design distributes Oak flavor evenly and fully in as little as six weeks. Both American and French Oak Infusion Spirals are available in Medium Plus Toast.

American Oak

Item ID	Spirals Per Pack	Spiral Size	Suggested Volume
BL-OAKAM-9	6	1.5" x 9"	59 gallons
BL-OAKAM-48	5	1.5" x 48"	270 gallons

French Oak

Item ID	Spirals Per Pack	Spiral Size	Suggested Volume
BL-OAKFR-9	6	1.5" x 9"	59 gallons
BL-OAKFR-48	5	1.5" x 48"	270 gallons



Oak Wood Chips

½-1 inch pieces, non-sterile. Use 8-32 ounces per barrel in beer. May be soaked in spirits or other flavorings before use. Use of a nylon mesh bag is recommended for containment. Available in American or French Oak.

Item ID	Product	Package Size
782-B-1	Toasted Oak Chips	1 pound bag
782-C-1	Toasted Oak Chips	5 pound bag
781-B-1	Untoasted Oak Chips	1 pound bag
781-C-1	Untoasted Oak Chips	5 pound bag
783-B-1	French Oak Chips	1 pound bag
783-C-1	French Oak Chips	5 pound bag



Jack Daniels Tennessee Whiskey Barrels

These barrels are freshly emptied prior to shipment but do not expect them to arrive with residual whiskey left in them. We can not guarantee that barrels will arrive wet or damp. Barrels are likely to leak a little bit for a few days upon filling. We will not replace any "lost" beer as a result of leaking barrels, we only replace the barrels. All barrels are approximately 4 years old at the time that they are emptied. To determine the barrel's age, you can check the fill date stamped on the barrel and add 4 years. We can ship in quantities from one barrel to a full truck load, four barrels per pallet.

Item ID	Barrel Volume	Barrel Weight (empty)	Barrel Dimensions	Bung Size
JD-Bourbon	53 gallons	120-125 pounds	34" tall, 25" diameter	1 7/8" or 50 mm

Barrel Oxyfresh - Barrel Cleaner

May be used for simple cleaning between wines or beers, or to reclaim barrels that may need to be refreshed.

Item ID	Package Size
598-3	50 pound pail

Cask Supplies, Keg Caps, Crowns, Bottle Wax

Please Note - Not All Products Are Available In All Markets.

Bungs

Item ID	Material	Hole Size
BC-1510-1	Wood	1 15/16"
BC-1520-1	Wood	1 27/32"

Item ID	Material	Hole Size
BC-2286-1	Silicone	35mm
BC-2285-1	Silicone	50 mm

Keystones

Item ID	Material	Pieces Per Pack
UK-PLKYSTN	Plastic	25
UK-WDKYSTN	Wood	25

Shives

Item ID	Material	Pieces Per Pack
UK-PLSHV25	Plastic	25
UK-WDSHIVES	Wood	25

Spiles

Item ID	Material	Pieces Per Pack
UK-HARDSPILES	Hard Wood	25
UK-SOFTSPILES	Soft Wood	25

Keg Caps

Dust caps for US Sankey keg valves.

Item ID	Cap Color	Caps Per Pack
BC-6040-2	White	100
BC-6040-1	White	2,000
BC-6042-2	Red	100
BC-6042-1	Red	2,000
BC-6044-2	Blue	100
BC-6044-1	Blue	2,000

Item ID	Cap Color	Caps Per Pack
BC-6046-2	Yellow	100
BC-6046-1	Yellow	2,000
BC-6048-2	Green	100
BC-6048-1	Green	2,000



Bottle Crown Caps

Crown Caps, Plain

Gold, unprinted, plain crown caps with PVC liner material.

Item ID	Caps Per Box
BC-2100-B-1	10,000

Black, unprinted, plain crown caps with PVC liner material.

Item ID	Caps Per Box
BC-2100-E-1	10,000

Red, unprinted, plain crown caps with PVC liner material.

Item ID	Caps Per Box
BC-2100-D-1	10,000



Crown Caps, Oxygen Absorbing

Gold, unprinted, crown caps with oxygen scavenging liner material.

Item ID	Caps Per Box
BC-2103-B-1	10,000

Bottle Wax - Beads

Usage is 30-50 bottles per pound. Flammable, heat with caution.

Item ID	Wax Color	Pounds Per Pack
BSW-BLK-2	Black	10
BSW-BLK-3	Black	50
BSW-BLU-2	Blue	10
BSW-BLU-3	Blue	50
BSW-BUR-2	Burgundy	10
BSW-BUR-3	Burgundy	50
BSW-GD-2	Gold	10
BSW-GD-3	Gold	50
BSW-GRN-2	Green	10
BSW-GRN-3	Green	50
BSW-RED-2	Holiday Red	10
BSW-RED-3	Holiday Red	50

Item ID	Wax Color	Pounds Per Pack
BSW-PUR-2	Purple	10
BSW-PUR-3	Purple	50
BSW-SLV-2	Silver	10
BSW-SLV-3	Silver	50
BSW-UNC-2	Uncolored	10
BSW-UNC-3	Uncolored	50
BSW-WHT-2	White	10
BSW-WHT-3	White	50
BSW-YEL-2	Yellow	10
BSW-YEL-3	Yellow	50



Enzymes, Filter Aids, Filter Sheets, Finings, Kettle Defoamer

Please Note - Not All Products Are Available In All Markets.

Enzymes

Item ID	Product	Package Size
BC-1025-1	Novozyme - Ultraflow Max	4 ounces
BC-1025-2	Novozyme - Ultraflow Max	1 quart
BC-1015-3	Endo-Alpha Amylase	1 quart
BC-1015-2	Endo-Alpha Amylase	1 gallon
BC-1020-2	Exo-Alpha Amylase (AMG 300L)	1 gallon
BC-460-C-1	Pectic Enzyme	1 pound

Product Description
Beta-Glucanase.
Beta-Glucanase.
Termamyl is an endo alpha amylase which hydrolyzes 1, 4-alpha glucosidic linkages resulting in soluble dextrans and oligosaccharides. Use with AMG-300L.
AMG is an alpha exoamylase.
Pectic enzyme (Ultrazyme) blended with corn sugar for ease of measurement and use.

Filter Aids

Item ID	Item Description	Package Size	Grade
AF-DE-FP1W	Eagle Pitcher (DE)	50 pounds	FP1W
AF-DE-FW6	Eagle Pitcher (DE)	50 pounds	FW-6
AF-DE-FP4	Eagle Pitcher (DE)	50 pounds	FP-4
AF-DE-FW12	Eagle Pitcher (DE)	50 pounds	FW-12
AF-DE-FW50	Eagle Pitcher (DE)	50 pounds	FW-50

Product Description
DE (Diatomaceous Earth) is a powdered filter aid.

Item ID	Item Description	Package Size
AF-CELLU	Cellulose	40 pounds
Item ID	Item Description	Package Size
CDJ-Cel-Std	Celite	50 pounds
CDJ-Cel-Hyf	Celite	50 pounds

Product Description
Use in conjunction with DE as pre-coating for rough and polish filtration.

(available though our Vancouver, WA, Hayward, CA and Denver, CO warehouses only)

Item ID	Item Description	Package Size	Grade
SB-PERL27M	Sil-Kleer Perlite	40 pounds	27M
SB-PERL23S	Sil-Kleer Perlite	34 pounds	23S
SB-PERL21S	Sil-Kleer Perlite	32 pounds	21S

Product Description
A powder filter aid produced from volcanic rock which has been milled to specific grades.

Item ID	Item Description	Package Size	Grade
CDJ-PER-5	Harborlite Perlite	40 pounds	500
CDJ-PER-7	Harborlite Perlite	30 pounds	700
CDJ-PER-9	Harborlite Perlite	20 pounds	900

(available though our Vancouver, WA, Hayward, CA and Denver, CO warehouses only)

Filter Sheets

Pall Corp HS-Series Filter Sheets

The main components of the Pall HS-series filter sheets are cellulose, kiesselguhr and perlite. A high specific output combined with a long service life ensure an economical operation, particularly in beer filtration. Grade HS 400 is used for sterilizing filtration, whereas grade HS 1600, HS 2000 and HS 4000 cover the entire range from fine to coarse filtration.

Item ID	Grade	Sheets Per Box	Size	Applications
PL-HS400	HS 400	100	40 cm x 40 cm	Fine filtration of beer for bacteria and yeast removal.
PL-HS800	HS 800	100	40 cm x 40 cm	Fine filtration of beer for bacteria and yeast removal.
PL-HS1600	HS 1600	100	40 cm x 40 cm	Filtration of beer for microorganism reduction.
PL-HS2000	HS 2000	100	40 cm x 40 cm	Filtration of beer for microorganism reduction.
PL-HS4000	HS 4000	100	40 cm x 40 cm	Prefiltration of beer for microorganism reduction and particle removal.
PL-HS6000	HS 6000	100	40 cm x 40 cm	Prefiltration of beer for microorganism reduction and particle removal.

Finings

Item ID	Product Name	Package Size
GR-BGHT-1K	AB Vickers Breakbright Tablets	2.2 pounds
GR-BGHT-5K	AB Vickers Breakbright Tablets	11 pounds

Product Description
These tablets can be added directly to the kettle 10 minutes before the end of the boil. Usage rate is 3.5-6 grams/bbl.

Bright Tank Fining

Item ID	Product Name	Package Size
BC-1026-1	Nalco 1072 - Kieselsol	1 quart
BC-1026-2	Nalco 1072 - Kieselsol	1 gallon
BC-1026-4	Nalco 1072 - Kieselsol	555 pound drum

(drop ship item)

Product Description
A 30% solution of SiO ₂ , Kieselsol is a purified colloidal solution of silicic acid (SiO ₁) in water that has been specifically formulated for the rapid sedimentation of yeast and other haze forming particles in beer. This product is vegan friendly.

Gelatin Clarifier

Item ID	Product Name	Package Size
BC-770-B-1	Gelatin Clarifier	1 pound
BC-770-C-1	Gelatin Clarifier	5 pound

Product Description
Positively charged fining agent for beer.

Irish Moss - Flaked

Item ID	Product Name	Package Size
BC-1080-B-1	Irish Moss	1 pound
BC-1080-C-1	Irish Moss	5 pound
BC-1080-B-2	Irish Moss	44 pounds

Product Description
Dried seaweed that helps settle excess protein in light beers. Boil in wort.

Super Moss

Item ID	Product Name	Package Size
5S-MOSS4	Super Moss	3.5 pounds
5SMOSS8	Super Moss	7.5 pounds

Product Description
A cold water dispersible kettle coagulant.

Isinglass - Dried

Item ID	Product Name	Package Size
GR-CRY-1LB	Cryofine	1 pound

Product Description
An isinglass (collagen) which may be added to beer at the end of fermentation and chilling

Silica Gel

Item ID	Product Name	Package Size
GR-PQ-A-100	Britesorb Silica Gel	50 pounds

Product Description
This unique silica hydrogel only removes proteins that cause chill haze.

Kettle Defoamer

Item ID	Product Name	Package Size
5S-KD5	Kettle Defoamer 105	5 gallons
5S-D880-4	Defoamer #880	4 x 1 gallons

Product Description
A 10% silicon concentrate for kettles and fermentors.
A vegetable oil anti-foam, effective in blow-off buckets.



Cleaners and Sanitizers

Please Note - Not All Products Are Available In All Markets.

Cleaners

Acid Cleaners

Item ID	Product Name	Product Description	Package Size
5S-AC5-4	Acid Cleaner #5	A low foam detergent designed to rapidly attack scale and stone to leave metal surfaces sparkling and is especially formulated to passivate and re-passivate stainless steel.	4 x 1 gallon
5S-AC5-5	Acid Cleaner #5		5 gallon
5S-AC5-30	Acid Cleaner #5		30 gallon
Item ID	Product Name	Product Description	Package Size
5S-AC6-4	Acid Cleaner #6	Formulated as a keg cleaner to dissolve scale formation that develops with standard alkaline cleaners.	4 x 1 gallon
5S-AC6-5	Acid Cleaner #6		5 gallon

Alkaline Cleaners

Item ID	Product Name	Product Description	Package Size
5S-PBW8LB	P.B.W.	An Alkaline Non-caustic, Environmentally and User friendly CIP cleaner.	8 pounds
5S-PBW50	P.B.W.	An Alkaline Non-caustic, Environmentally and User friendly CIP cleaner.	50 pounds
*5S-PBW450	P.B.W.	An Alkaline Non-caustic, Environmentally and User friendly CIP cleaner.	450 pounds
Item ID	Product Name	Product Description	Package Size
5S-SS-50	Star Super CIP	A specially formulated, powder, low temperature, chlorinated caustic cleaner.	50 pounds
Item ID	Product Name	Product Description	Package Size
5S-HD2-50	H.D. Caustic #2	Heavy duty chelated caustic designed for general use as a CIP, soak or foam cleaner.	50 pounds
Item ID	Product Name	Product Description	Package Size
5S-LCC1-4	Liquid Circulation Cleaner #1	A liquid, gluconated, CIP caustic cleaner with a surfactant package.	4 x 1 gallon
5S-LCC1-5	Liquid Circulation Cleaner #1	A liquid, gluconated, CIP caustic cleaner with a surfactant package.	5 gallon
Item ID	Product Name	Product Description	Package Size
5S-SL4	Star Line	A liquid alkaline chlorinated cleaner designed to remove soils at low cleaning temperatures.	4 x 1 gallon

Manual & Foam Cleaners

Item ID	Product Name	Product Description	Package Size
5S-CMC50	CMC	A chlorinated manual cleaner designed to be used with brush, spray or soak application.	50 pounds
Item ID	Product Name	Product Description	Package Size
SPK4	Sparkle	A self-foaming liquid chlorinated cleaner.	4 x 1 gallons

Sanitizers

Final Rinse Sanitizers

Item ID	Product Name	Product Description	Package Size
5S-IOS4	IO-Star Iodphor	A low foaming iodophor for sanitizing.	4 x 1 gallon
5S-IOS5	IO-Star Iodphor	A low foaming iodophor for sanitizing.	5 gallon
Item ID	Product Name	Product Description	Package Size
592-C-1	Iodphor	A food grade, non-rinse, iodine-based sanitizer.	1 gallon
Item ID	Product Name	Product Description	Package Size
EN-C513-5	Peroxyacetic Acid	Hydrogen Peroxide and Peroxyacetic acid mixture.	5 gallon
Item ID	Product Name	Product Description	Package Size
5S-QTM4	Quantum	Quaternary Ammonia based sanitizer, disinfectant and deodorant.	4 x 1 gallon
Item ID	Product Name	Product Description	Package Size
5S-SANI 32 ounce	Saniclean	A low foam, final acid anionic rinse.	32 ounces
5S-SANI4	Saniclean	A low foam, final acid anionic rinse.	4 x 1 gallon
5S-SANI5	Saniclean	A low foam, final acid anionic rinse.	5 gallon
5S-SANI55	Saniclean	A low foam, final acid anionic rinse.	55 gallon
Item ID	Product Name	Product Description	Package Size
*5S-SCH5	Star Chlor	A broad spectrum sanitizer – disinfectant for chlorine dispensing systems.	5 gallon
Item ID	Product Name	Product Description	Package Size
5S-STAR - 32 ounce	Star San	A high foaming, acid anionic, non-rinse sanitizer.	32 ounces
5S-STAR4	Star San	A high foaming, acid anionic, non-rinse sanitizer.	4 x 1 gallon
5S-STAR5	Star San	A high foaming, acid anionic, non-rinse sanitizer.	5 gallon
Item ID	Product Name	Product Description	Package Size
5S-SX5	Star-Xene	Stabilized chlorine dioxide which is a no rinse, odorless sanitizer.	5 gallon

* = Not a stock item. Available for drop shipment from the manufacturer only.



Water Treatment, Glycol, Other

Please Note - Not All Products Are Available In All Markets.

Water Treatment

<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-FIVE2-7	5.2 pH Stabilizer	A blend of buffers that brings mash and kettle water pH to 5.2	7 pounds
5S-FIVE2-2	5.2 pH Stabilizer	A blend of buffers that brings mash and kettle water pH to 5.2	15 pounds
5S-FIVE2-4	5.2 pH Stabilizer	A blend of buffers that brings mash and kettle water pH to 5.2	40 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-CCRHL50	Calcium Carbonate	Increases pH; 1 gram per gallon adds 106 ppm calcium, 158 ppm carbonate.	50 pounds
BC-570-E-1	Calcium Carbonate	Increases pH; 1 gram per gallon adds 106 ppm calcium, 158 ppm carbonate.	50 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-CCHL50	Calcium Chloride	Lowers mash pH; 1 gram per gallon adds 72 ppm calcium, 127 ppm chloride.	50 pounds
BC-1005-B-1	Calcium Chloride	Lowers mash pH; 1 gram per gallon adds 72 ppm calcium, 127 ppm chloride.	50 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-CSUL50	Calcium Sulfate	Adds permanent hardness (calcium ions) to brewing water; 1 gram per gallon.	50 pounds
BC-1002-C-1	Calcium Sulfate	Adds permanent hardness (calcium ions) to brewing water; 1 gram per gallon.	50 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-CIT8	Citric Acid	One teaspoon per gallon will increase acidity by 0.1%.	8 pounds
5S-CIT50	Citric Acid	One teaspoon per gallon will increase acidity by 0.1%.	50 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-LA-4	Lactic Acid	88% solution. Lowers pH of sparge water.	4 x 1 gallons
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-MGSF50	Magnesium Sulfate	Adds sulfate and magnesium ions to brewing water.	50 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-PHA4	Phosphoric Acid	10% solution. May be used to lower sparge water pH.	4 x 1 gallons
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
BC-510-E-1	Potassium Sorbate	A food additive use to prevent further fermentation.	50 pounds
<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
BC-505-C-1	Sodium Benzoate	A food additive use to prevent further fermentation.	50 pounds

Boiler Treatment

<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-BT-5	Boiler Treatment Liquid	Formulated to control scale buildup and retard rust formation.	5 gallon

Bottling Line Lube

<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-LBH-5	Lube H	A quality conveyor lubricant for hard water areas.	5 gallon

Copper Cleaner

<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-SHIN32	Star Shine	A copper, brass and soft metal spray on wipe-off cleaner.	32 ounces

Propylene Glycol

<u>Item ID</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Package Size</u>
5S-GLY5	Propylene Glycol	For use in glycol-cooled heat exchangers.	5 gallon
BC-6677-B-1	Propylene Glycol	For use in glycol-cooled heat exchangers.	5 gallon

Shepard Brothers Chemicals

(available though our Vancouver, WA and Hayward, CA warehouses)



SHEPARD BROS., INC.

Please Note - Not All Products Are Available In All Markets.

Cleaners and Sanitizers

Powdered Cleaners

Item ID	Product Name	Product Description	Package Size
SB-KEG	Brewery Cleaner, 40 lb	Powdered oxidizing alkaline cleaner	40 lb pail
SB-KEG-DRM	Brewery Cleaner, 440 lb	Powdered oxidizing alkaline cleaner	440 lb drum
SB-BCLN	Boost Clean, 50 lb	Powdered alkaline cleaning booster for removing stubborn protein stains	50 lb pail
SB-APC500	APC-500, 50 lb	Heavy-duty powdered Sodium Hydroxide cleaner	50 lb pail
SB-APC500D	APC-500, 550 lb	Heavy-duty powdered Sodium Hydroxide cleaner	550 lb drum
SB-SHUR-50	SHUR, 50 lb	Powdered non-chlorinated manual cleaner	50 lb pail
SB-SHUR-D	SHUR, 550 lb	Powdered non-chlorinated manual cleaner	550 lb drum
SB-DS-350	DS 350, 50 lb	Powdered chlorinated general cleaner	50 lb pail

Liquid Cleaners

Item ID	Product Name	Product Description	Package Size
SB-SH250-5	Shear 250, 5 Gal	Caustic circulation cleaner (Sodium Hydroxide with EDTA) [Blue jug fits Pail Hand Pump]	5 gal
SB-SH250-D	Shear 250, 55 Gal	Caustic circulation cleaner (Sodium Hydroxide with EDTA)	55 gal
SB-AC14-1	Acid #14, 1 Gal	Low foaming acid cleaner	1 gal
SB-AC14-5	Acid #14, 5 Gal	Low foaming acid cleaner	5 gal

Liquid Sanitizers

Item ID	Product Name	Product Description	Package Size
SB-LFI	LFI, 1 Gal	Low Foaming Iodine sanitizer	1 gal
SB-ACDZ-1	Acidize DS-50, 1 Gal	Foaming Acid Sanitizer	1 gal
SB-ACDZNF-5	Acidize NF-20, 5 Gal	Non-foaming Acid Sanitizer	5 gal
SB-PERA-5	Peracetic acid, 5 Gal	Peroxyacetic acid sanitizer	5 gal

Defoamer, Pumps, Other

Item ID	Product Name	Product Description	Package Size
SB-PUMP5	Pail Hand Pump	Heavy duty chemical hand pump (Can be used with any liquid chemicals blue pail)	unit
SB-PUMP55	Drum Hand Pump	Heavy duty chemical hand pump (Can be used with any liquid chemicals blue drum)	unit
SB-ADAPTOR	Peracetic Pump Adapt Ring	Adapts Peracetic acid pail for use with pump (Required with pail hand pump)	unit
SB-FLXD3-1	Flex DF-3, 1 Gal	Food Grade Silicone Defoamer	1 gal
SB-FLXDF-3	Flex DF-3, 5 Gal	Food Grade Silicone Defoamer	5 gal