



A simple way to blend two products into a single tank.

## Summary

Tank blending is a common practice, not just for merging two of the same kind of beer, but even two different brands. Tank blending in Orchestrated is incredibly easy and simple allowing you to merge two different brands into a single one or two of the same brand of beer together in a single tank.

## How to Set up Control Item

The blend control item(s) are extremely important and are added when OBeer is installed. Their purpose is to overcome a challenge in SAP of have the same component item and finished good item on a production order. In layman's terms, you can't create an item out of itself and out of necessity the control item was created. In Orchestrated, the items OB9001 and OB9002 are created and assigned to all warehouses, and a Bill of Material is created for OB9001 that contains item OB9002, the rest of the setup is up to you.

#	Item No.	Item Description	Item G.	Process Type	In Stock
1	OB9001	Blend Control Item	Items	None	0
2	OB9002	Blend Line Item	Items	None	0

The following additional setup is required:

1. Set the item group for OB9001 & OB9002 by navigating to the item within Item Master Data, then selecting WIP: Green Beer or WIP Bright Beer.

Now, how is the control used? **WARNING TECHNICAL STUFF COMING..** when you select Blend Tank.. the following happens

1. A production order is created for the blend control item OB9001 that consumes the two beers. This accumulates the cost of these two items into whatever account you have set through the item group.



**Production Order**

Type: Standard      No.: Primary      10328  
Status: Closed      Order Date: 01/13/15  
Product No.: OB9001      Production Date: 01/13/15  
Product Description: Blend Control Item      Production Time:  
Planned Quantity: 384.5      UoM Name: UoM-BBL      Due Date: 01/13/15  
Warehouse: B02      User: Conner Helton  
Turn/Brew #:      Master Prod #:      Batch #:      Batch Date:      Suff:

Components    Summary    Yeast    History    6

#	Item No.	Item Description	Base ...	Planned...	Issued	Avail...	UoM ...	UoM ...	Wareho...	Issue M...
1	BB1003	Bright Beer - IPA	0.86	330.5	384.5	839.83	Manual	BBL	B02	Manual
2	BB1003	Bright Beer - IPA	0.14	54		839.83	Manual	BBL	B02	Manual
3										

Remarks: Tank Blend #6  
Related pdo: 10329

OK    Cancel

2. This production order is then processed making planned quantity and issued quantity the same based on the value you said you received in the blend (usually 100% of both items)
3. A 2nd production order is created for "Blended" bright beer (or green beer) that consumes the Blend Control Item, so that the value of those beers is captured in the final product and the batch ID is set.



**Production Order**

Type: Standard      No.: Primary      10329  
Status: Closed      Order Date: 01/13/15  
Product No.: BB1003      Production Date: 01/13/15  
Product Description: Bright Beer - IPA      Production Time:   
Planned Quantity: 384.5      UoM Name: BBL      Due Date: 01/13/15  
Warehouse: B02      User: Conner Helton  
Turn/Brew #:      Master Prod #:      Batch #:      Batch Date:      Suff:   
6

Components    Summary    Yeast    History

#	Item No.	Item Description	Base ...	Planned...	Issued	Avail...	UoM ...	UoM ...	Wareho...	Issue M...
1	OB9001	Blend Control Item	1	384.5	384.5		Manual	UoM-BBL	B02	Manual

Remarks: Tank Blend #6  
Related pdo: 10328

OK    Cancel

4. The production order is processed with the planned quantity and issued quantity being equal.





Cellar Worksheet

Location : Brewery #1 Start Date 12/14/13 End Date 12/14/14 Refresh Matrix User

Production

Express

Issue

Receipt

Status

GR

Close

QC Data

Firm QC

CIP

Warehouse	Item Code	Item Name	Volume	Batch	Days Left
F01	--{(Empty)}--		0.00		
F02	GB1001	Green Beer - Amber Ale	100.00	BATCH14	7
F02	GB1001	Green Beer - Amber Ale	152.00	AMA100	7
F03	DH1003	Dry Hopped Beer - IPA	140.00	IPA119	
F04	--{(Empty)}--		0.00		
F05	--{(Empty)}--		0.00		

S	Batch	MPN	Production Order #	Style	Prod Date	Prod Time	Due Date	From Whse	To Whse	Planned Qty
R	AMA34	0	10073	Bright Beer - Amber Ale	04/16/14	12:00PM	04/16/14	F03	B02	400.00
R	IPA61	0	10076	Bright Beer - IPA	04/21/14	12:00PM	04/21/14	F04	B04	90.00
R	IPA60	0	10077	Bright Beer - IPA	04/18/14	10:00AM	04/18/14	F01	B05	90.00
R	IPA62	1	10078	Bright Beer - IPA	05/01/14	4:05PM	05/01/14	F10	B04	90.00
R	IPA42	7	10161	Bright Beer - IPA	04/20/14	3:25PM	04/20/14	F02	B03	90.00
R	IPA43	8	10168	Bright Beer - IPA	05/01/14	12:30PM	05/01/14	F04	B05	90.00

Production Order Lines :

Line Num	Item	Item Name	Whse
4			

In this example the Cellar Worksheet is displayed and there are two beers with different batch IDs, effectively two items within the same tank, these beers are to be blended.

2. **Right-click** on the the tank you wish to blend and select **"Blend Tank"**. The batch ID will default to the row you right-clicked on (but this can be changed).

Cellar Worksheet

Location : Brewery #1 Start Date 12/15/13 End Date 12/15/14 Refresh Matrix User: Status Released

Production

Express

Issue

Receipt

Status

Current Tank Status :

Warehouse	Item Code	Item Name	Volume	Batch
B05	--{(Empty)}--		0.00	
F01	--{(Empty)}--		0.00	
F02	GB1001	Green Beer - Amber Ale	100.00	BATCH14
F02	GB1001	Green Beer - Amber Ale	152.00	AMA100
F03	DH1003	Dry Hopped Beer - IPA	140.00	IPA119
F05	--{(Empty)}--		0.00	

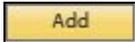
Copy

Filter Table...

Blend Tank

3. With the Tank Blending screen up, enter the Blend Date (will default to today), the *final* blended quantity (default to the sum in the tank), and verify the Final Item & Batch information. Clicking on the  button will display the items in the tank and allow you



to choose the final product. When you have finished click the  button.

Document

Status  1 Blend Date  Warehouse

Final Item   2

Batch  3

Quantity  2

InPdo

Input Items

	ItemCode	ItemName	Quantity	Batch
1	GB1001	Green Beer - Amber Ale	152.00	AMA100
2	GB1001	Green Beer - Amber Ale	100.00	BATCH14

Comments

OutPdo

4

## Additional Information

Blend History



- You can view the history of tank blends at anytime by navigating to Production → Blend History

Document: 2  
Status: Closed    Blend Date: 12/15/14    Warehouse: F02  
Final Item: GB1001    Green Beer - Amber Ale    Quantity: 252.00  
Batch: BATCH14    InPdo: 10192

ItemCode	ItemName	Quantity	Batch
1	GB1001	152.00	AMA100
2	GB1001	100.00	BATCH14

Comments: [Empty text area]  
OutPdo: 10191

Buttons: OK, Cancel

## Control Items

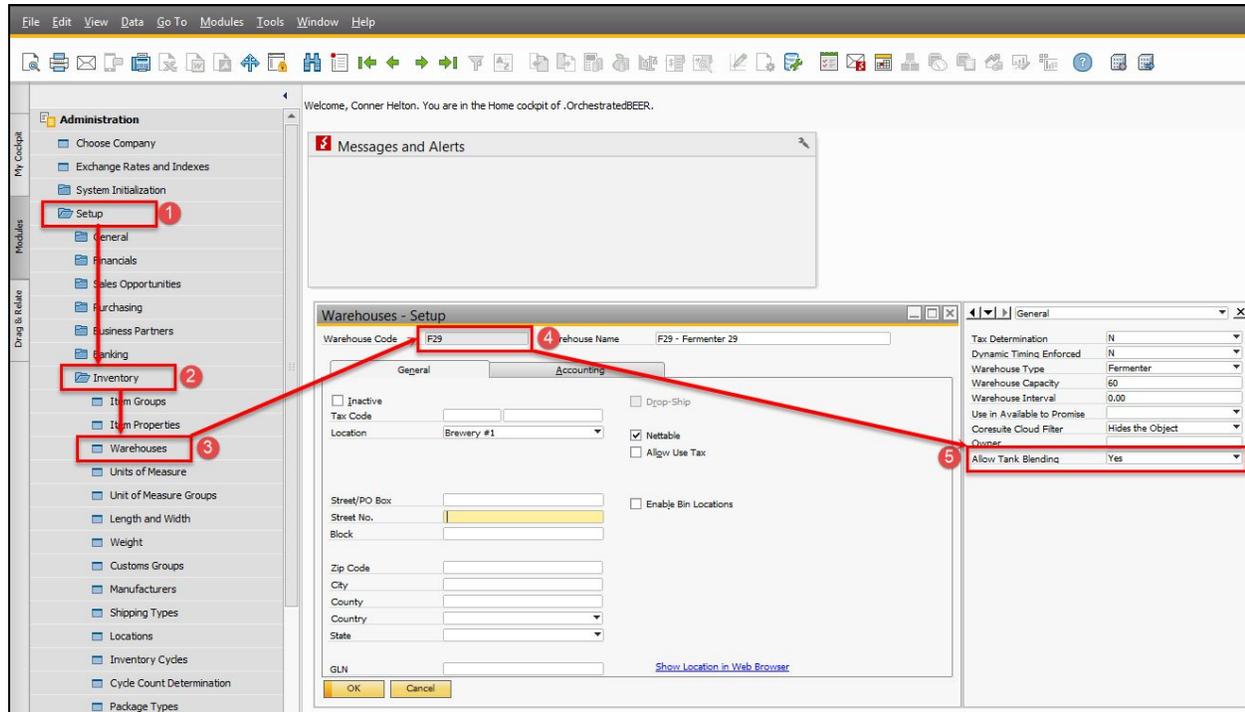
- Tank blending uses two control items for the process to work. Both of these items require GL determination setup. The two items are OB9001: Blend Control Item and OB9002: Blend Line Item.

## Warehouse Setup

- By default all warehouses are setup to allow tank blending. If you wish to change this flag, its done on the warehouse setup screen. Navigate to Administration → Setup → Inventory → Warehouses. Then locate the



warehouse you wish to change. Ensure User-Defined Fields are visible (Click View → Show User Defined Fields from the menu bar at the top). Then select **NO** from the Allow Tank Blending drop down.



Version 4.5.1.0