



# FIELD TO SPIRIT™ DISTILLERS CONVERSION MALT

| Parameter       | Value  | Unit |
|-----------------|--------|------|
| Moisture        | 4.81   | %    |
| Friability      | 95.2   | %    |
| Extract FGDB    | 79.6   | %    |
| Extract CGDB    | 78.1   | %    |
| F-C Difference  | 1.5    | %    |
| Color           | 1.5    | SRM  |
| Beta Glucan     | 42     | Mg/L |
| Soluble Protein | 3.75   | %    |
| Total Protein   | 12.8   | %    |
| S/T             | 29.4   | %    |
| FAN             | 197    | Mg/L |
| DP              | 174    | L    |
| Alpha Amylase   | 79     | D.U. |
| Filtration      | Normal | Time |
| Turbidity       | Clear  | NTU  |
| pH              | 5.92   |      |
| Plumps on 6/64  | 97.6   | %    |
| Thins on 5/64   | 1.91   | %    |



## GRAIN HISTORY

This malt was made from two-row Brewski barley developed by North Dakota State University, in cooperation with Arrow K Farms. Arrow K Farms is located in Belfield, ND just a few miles east of Theodore Roosevelt National Park in western ND.

Brewski was developed with craft brewers in mind and provides great efficiency, faster lautering, and a nice plump kernel. Two Track Malting is the exclusive maltster of Brewski barley and Arrow K Farms is the exclusive grower of Brewski barley which results in a truly unique malt that you can't find anywhere else in the world.

Two Track Malting uses grain grown without irrigation by growers practicing regenerative agriculture. This results in the highest quality grain grown with the least environmental impact.

## Hot Steep Method

### Items Needed to perform the Hot Steep Method:

- 24-ounce Thermos
- Funnel
- Cone Coffee Filter
- Coffee Grinder
- Scale capable of weighing 50.0 g (± 0.1 g)
- Glass Beaker, tall, 600 mL volume
- Thermometer, standard, 0-200°C
- Quart sized large or small mouth canning jars
- Heating apparatus, capable of heating water to 65°C

### Steps to perform the Hot Steep Method:

1. Grind 50.0g of malt in coffee grinder (grind of 10-15 sec)
2. Add 400ml of 65°C (149°F) water to Thermos
3. Add grist to water, cap thermos and shake for 20 sec
4. Let rest for 15min
5. When timer is up, swirl for a few seconds then pour everything into filter in funnel over large jar
6. Collect 100ml of wort and add it back into filter
7. Collect and Taste

## Check Your Malt Grind

Take 100g of milled grist and Place in #14 Sieve stacked over #30,#60 over pan, Slide 18" on smooth surface for 3 min and Tap sharply on surface ever minute Record Grist retained above in each sieve **Chart to the below gives Percentage of what should be retained in each sieve for each grind**

| 100g Sample         | #14 Sieve | #30 Sieve | #60 Sieve | Pan |
|---------------------|-----------|-----------|-----------|-----|
| <b>Coarse Grind</b> | 78g       | 14g       | 4g        | 4g  |
| <b>Medium Grind</b> | 53g       | 28g       | 11g       | 8g  |
| <b>Fine Grind</b>   | 25g       | 25g       | 30g       | 20g |

## Calculating PPG and OG

**PPG (SG of 1 lb of fermentable in 1 gal of water)**

$$PPG=46.214*(DBCG/100-MC\%/100-0.002)$$

**Original Gravity Calculation**

$$OG=1+(EF\%/100)*(PPG*MW/BV)$$

MW = pounds of malt used  
 BV = Batch volume in gallons  
 EF% = Mashing efficiency  
 OG = Original Gravity  
 PPG = Pounds Per Gallon  
 MC = Moisture Content  
 DBCG = Course Grind Extract