

# **RYE MALT**

Our newly released Rye malt has a subtle grain smell with a slight spice. Our Rye has a sweet earthy taste upfront and spice flavor from the rye which reminds us of rye bread. We suggest the use of rice hulls when using rye malt. Our newest malt is designed to be a full flavor rye malt to add mouthfeel and characteristics only rye can give the brewer.

## **MALT ANALYSIS**

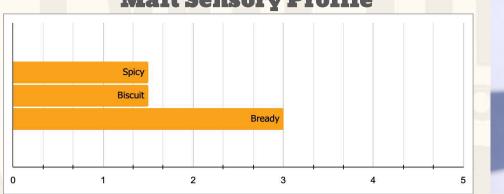
Parameter	Value	Unit	
Moisture content	3.8	%	
Extract on fine grind dry basis	87.4	%	
Extract on coarse grind dry basis	80.6		
Difference in fine and coarse extract	6.8	%	
Color spectrophotometrical	2.82	°SRM	
Total protein content	10.8	%	
Soluble protein dry basis	5.72	%	
Diastatic Power on Malt Am. Soc. Brewing Chemists	94	ASBC DP	
Alpha amylase	13	DU	
рн	6.32		
Free amino nitrogen	95	mg/l	
Filtration	normal		
Clarity	Clear		



**Grain History** 

The rye for this malt was grown by Gartner Seed Farms near Saint Anthony, North Dakota, not far from our malting facility in Lincoln.

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



## **Malt Sensory Profile**



## Hot Steep Method

	Items needed to perform the Hot Steep Method:
	Malt to be tested
	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
1.	Grind 50 g. of malt in coffee grinder (grind for 10-15 seconds)
2.	Add 400 ml of 65°C (149°F) water to Thermos
2	

Add malt grist to water, cap thermos and shake for 20 seconds
Let rest for 15minutes

- When timer is up, swirl for a few seconds then pour 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 malt grist and place in a #14 sieve stacked over a #30 sieve over a #60 sieve over a pan. Slide 18" back and forth on a smooth surface for 3 minutes, stopping to tap stacked sieves sharply on surface every minute. Record Grist retained in each sieve. *Chart below gives percentage of what should be retained in each sieve for each grind.* 

100 gram sample	#14 sieve	#30 sieve	#60 sieve	Pan
Coarse grind	78 grams	14 grams	4 grams	4 grams
Medium grind	53 grams	28 grams	11 grams	8 grams
Fine grind	25 grams	25 grams	30 grams	20 grams

## **Calculating PPG and OG**

PPG (Specific gravity of 1 lb of fermentable in 1 gal of water) PPG=46.214 x (DBCG/100-MC%/100-0.002)

Original Gravity Calculation OG=1+(EF%/100) x (PPG x MW/BV) MW = Malt weight in pounds BV = Batch volume in gallons EF% = Mashing efficiency OG = Original gravity PPG = Pounds per gallon MC = Moisture content DBCG = Dry basis coarse grind extract

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