

# 100% KOLSCH (3 Gallon Brew-in-a-Bag All Grain Kit)

Official NORTHERN BREWER Instructional Document

Commandingly German, this beer proves that sometimes there is something to keeping it simple. Schill Malz kilns this unique malt less than 10 km from downtown Cologne, where the appellation of Kolsch has been protected for over 15 years, and bureaucracy hasn't kept it down for hundreds more. Malty notes ranging from saltines with a gloss of nut butter to fresh-cut hay are balanced by herbal German hops and a dollop of fruity yeast. Prove that Kolsch is never out of style and never out of season, get to 100%.

## OG 1.054 READY: 6 WEEKS

Suggested fermentation schedule:

- 1-2 week primary; 2 weeks cold secondary; 2 weeks bottle conditioning

## MASH INGREDIENTS

- 6 lbs. German Kolsch malt

## MASH SCHEDULE: SINGLE INFUSION

**SACCH' REST:** 150° F for 90 minutes

**MASHOUT:** 168° F for 10 minutes

## BOIL ADDITIONS & TIMES

1 oz Czech Saaz hops (boil for 60 minutes)

## YEAST

If you chose dry yeast:

**SAFALE US-05.**

Optimum temperature: 59-75° F

If you chose liquid yeast:

**WYEAST #2565 KOLSCH YEAST.**

Optimum temperature: 56-64° F

## BEFORE BREWING

These instructions assume familiarity with basic homebrewing procedures such as boiling wort, fermentation, siphoning, and bottling. If you have questions or need a refresher, please refer to our online video library at [northernbrewer.com](http://northernbrewer.com), or contact us at **(800) 681-2739**.

## MINIMUM REQUIREMENTS

- A Northern Brewer Starter kit with fermenting, siphoning, and bottling equipment
- Northern Brewer 3 Gallon BIAB all grain system
- A kettle with a capacity of at least 7 gallons
- A 3 gallon carboy, with bung and airlock, to use as a secondary fermenter (you may choose to skip the secondary fermentation and add an additional week to primary fermentation before bottling)
- Approximately one case of pry-off style beer bottles, or a 3 gallon keg

## BREWING PROCEDURE

### MASHING

- **1.** Crush the grain in a mill (if not ordered pre-crushed).
- **2.** Collect water in boil/mash kettle. For this 3-gallon recipe, start with 4.5 gallons of good-quality drinking water. It's easier to adjust after the boil if the final wort volume is under 3 gallons than vice versa.
- **3.** Heat water to 158-160° F. Turn off the burner.
- **4.** Line the kettle with the mesh bag. Be careful—the water and the kettle are hot!
- **5.** Pour in the grist, stir. Slowly add the grist (crushed grain) to the mesh bag, immersed in the water. Stir well to mix, breaking up any clumps of grist. The mixture of grist and hot water is now called the mash.
- **6.** Measure mash temperature. The temperature of the mash should stabilize within 1-2 degrees of 150° F. If it is cooler than that, apply low heat to the kettle while stirring the mash to raise the temperature. If it is too warm, add cool water, a couple cups at a time, stirring and measuring after each addition. When the mash temperature is stabilized, cover the kettle and let the mash rest.
- **7.** Rest for 90 minutes. During the 90-minute saccharification rest, enzymes in the malt break down complex starch molecules into simple sugar molecules that will be fermentable by brewer's yeast.
- **8.** Mash out (optional). When the 90 minute saccharification rest is finished, use low heat under the kettle and frequent stirring to heat the mash to a temperature of 168-170° F. Rest at this temperature for 10 minutes before proceeding. Note: you may wish to skip this step and proceed directly to lautering from the 90 minute saccharification rest. Skipping a mash out rest will save time on your brew day and won't harm your beer. Including a mash out rest will usually result in higher mash efficiency (more sugars extracted from grist = higher wort gravity).

### LAUTERING

- **9.** Remove & drain the grist. Carefully lift the mesh bag out of the kettle—the grist, liquid, kettle, and bag will be hot! Let the bag drain into a bucket or spare kettle—any collected wort can be added back to the wort in the boil kettle. The liquid remaining in the kettle is the preboil wort—for most recipes, there should be approximately 4 gallons at this point.

## UNPACK THE KIT

- Refrigerate the yeast upon arrival
- Locate the Kit Inventory (above) - this is the recipe for your beer, so keep it handy
- Doublecheck the box contents vs. the Kit Inventory (note: grain malts will be blended in the same bag!)
- Contact us immediately if you have any questions or concerns!

## QUESTIONS DURING BREW DAY?

- Customer service phone: **(800) 681-2739**
- Customer service email: [info@northernbrewer.com](mailto:info@northernbrewer.com)
- Live chat at [www.northernbrewer.com](http://www.northernbrewer.com) (during business hours)

### BOILING AND BEYOND

- **10.** Bring the wort to a boil. Boil 60 minutes with additions as specified by the recipe.
- **11.** Cool the wort. For a full-volume boil we highly recommend use of a wort chiller.
- **12.** Pitch yeast, ferment, package, and enjoy! Please refer to the fermentation temperatures and suggested timeline recommended above.