

## 10. Tormodgarden Polish Kveik

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **78**
- SRM **3.7**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **4 %**
- Size with trub loss **25.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.1 liter(s)**

### Mash information

- Mash efficiency **68 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **15.5 liter(s)**
- Total mash volume **21.7 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**

### Mash step by step

- Heat up **15.5 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **21.8 liter(s)** of **76C** water or to achieve **31.1 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount         | Yield  | EBC |
|-------|----------------------------|----------------|--------|-----|
| Grain | Briess - Pale Ale Malt     | 2 kg (32.3%)   | 80 %   | 7   |
| Grain | Briess - Pilsen Malt       | 2.5 kg (40.3%) | 80.5 % | 2   |
| Grain | Briess - Wheat Malt, White | 0.8 kg (12.9%) | 85 %   | 5   |
| Grain | Oats, Malted               | 0.5 kg (8.1%)  | 80 %   | 2   |
| Grain | Oats, Flaked               | 0.4 kg (6.5%)  | 80 %   | 2   |

### Hops

| Use for             | Name       | Amount | Time      | Alpha acid |
|---------------------|------------|--------|-----------|------------|
| Boil                | lunga      | 30 g   | 60 min    | 11 %       |
| Boil                | Marynka    | 20 g   | 60 min    | 10 %       |
| Boil                | lunga      | 25 g   | 20 min    | 11 %       |
| Boil                | Marynka    | 25 g   | 20 min    | 10 %       |
| Aroma (end of boil) | lunga      | 100 g  | 0 min     | 11 %       |
| Aroma (end of boil) | Centennial | 50 g   | 0 min     | 10.5 %     |
| Dry Hop             | Zula       | 50 g   | 10 day(s) | 9 %        |

### Notes

- 23.08.2020 - no boil bo grzałka padła. zatarte w 90-95 C na 11-11,5 Brix
- 03.09.2020 - 50 g zula na zimno
- *Sep 10, 2020, 8:16 AM*