

8. Tormordgarden Polish Kveik

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **73**
- SRM **4.2**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **26.2 liter(s)**

Steps

- Temp **65 C**, Time **60 min**

Mash step by step

- Heat up **19.6 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|----------------|--------|-----|
| Grain | Pilzneński | 2 kg (30.5%) | 81 % | 4 |
| Grain | Briess - Carapils Malt | 0.5 kg (7.6%) | 74 % | 3 |
| Grain | Briess - Rye Malt | 0.7 kg (10.7%) | 80 % | 7 |
| Grain | Pszeniczny | 1 kg (15.3%) | 85 % | 4 |
| Grain | Briess - Pale Ale Malt | 1 kg (15.3%) | 80 % | 7 |
| Grain | Oats, Flaked | 1 kg (15.3%) | 60 % | 2 |
| Grain | Rye, Flaked | 0.35 kg (5.3%) | 78.3 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil | Marynka | 30 g | 60 min | 10 % |
| Boil | lunga | 20 g | 60 min | 10 % |
| Boil | Marynka | 20 g | 20 min | 10 % |
| Boil | lunga | 30 g | 20 min | 10 % |
| Aroma (end of boil) | Książęcy | 100 g | 0 min | 7.3 % |
| Dry Hop | ZULA | 50 g | 5 day(s) | 8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-----------------|-----|--------|--------|----|
| FM53 Voss kveik | Ale | Liquid | 100 ml | FM |
|-----------------|-----|--------|--------|----|

Notes

- 02.08.2020 - zatarte na 13,5-14 Brix. Dodano gęstwą tormodgarden kveik
- 03.08.2020 - start fermentacji
- 10.08.2020 - 50 g ZULA - na zimno
- Aug 4, 2020, 8:51 AM*