

Czapka mikołaja

- Gravity **17.1 BLG**
- ABV ---
- IBU **34**
- SRM **46**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **8 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.6 liter(s)**

Mash information

- Mash efficiency **73 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.8 liter(s)**
- Total mash volume **26.4 liter(s)**

Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **19.8 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **28.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|----------------------------|---------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 5 kg (70.4%) | 85 % | 7 |
| Grain | Strzegom Monachijski typ I | 0.5 kg (7%) | 79 % | 16 |
| Adjunct | Briess - Barley Flakes | 0.5 kg (7%) | 70 % | 3 |
| Grain | Strzegom Karmel 300 | 0.3 kg (4.2%) | 70 % | 299 |
| Grain | viking malt czekoladowy | 0.3 kg (4.2%) | 68 % | 400 |
| Grain | Carafa II Special | 0.3 kg (4.2%) | 70 % | 812 |
| Grain | Jęczmień palony | 0.2 kg (2.8%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Marynka | 30 g | 60 min | 10 % |
| Boil | lunga | 12 g | 15 min | 11 % |
| Boil | Marynka | 3 g | 15 min | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|-------|---------------------|--------|---------|-------|
| Spice | Przyprawy - notatki | 1 g | Boil | 5 min |

Notes

- Przyprawy
goździki - 4,5 sztuk
cynamon - 10 cm
skórka pomarańczy - 20g
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