

Christmas Stout

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **30**
- SRM **36.4**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.2 liter(s)**
- Total mash volume **23.4 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**

Mash step by step

- Heat up **18.2 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------------|----------------|-------|-----|
| Grain | Simpsons - Maris Otter | 2.5 kg (48.1%) | 81 % | 6 |
| Grain | Special X | 1 kg (19.2%) | 79 % | 300 |
| Grain | Oats, Flaked | 1.2 kg (23.1%) | 80 % | 2 |
| Grain | Czekoladowy | 0.5 kg (9.6%) | 60 % | 900 |
| Grain | Weyermann - Dehusked Carafa I | 0 kg | 70 % | 690 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnum | 24 g | 60 min | 11.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 10 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech Irlandzki | 4 g | Boil | 15 min |

| | | | | |
|-------|-------------------|-------|------|--------|
| Other | Czekoladowyd | 500 g | Mash | 15 min |
| Other | Carafa special I | 250 g | Mash | 15 min |
| Spice | cynamon | 10 g | Boil | 15 min |
| Spice | Anyż | 1 g | Boil | 15 min |
| Spice | goździki | 1 g | Boil | 15 min |
| Spice | skórka pomarańczy | 11 g | Boil | 5 min |

Notes

- cynamon - 3 sztuki
anyż - gwiazdka x 2
goździki - 22 sztuk
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