

Foregin Extra Stout

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **29**
- SRM **25.3**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **30.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **65 C**, Time **45 min**
- Temp **72 C**, Time **10 min**
- Temp **72 C**, Time **10 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **45 min** at **65C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **30.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------|-------|------|
| Grain | Pale Ale | 4 kg (57.1%) | 85 % | 7 |
| Grain | Karmelowy Jasny 30EBC | 0.4 kg (5.7%) | 75 % | 30 |
| Grain | Monachijski typ II | 1.3 kg (18.6%) | 79 % | 25 |
| Grain | Czekoladowy 400 | 0.4 kg (5.7%) | 68 % | 400 |
| Grain | Strzegom Czekoladowy 1200 | 0.14 kg (2%) | 68 % | 1200 |
| Grain | Płatki jęczmienne | 0.66 kg (9.4%) | 85 % | 3 |
| Grain | Barwiący palony | 0.1 kg (1.4%) | 55 % | 1350 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Marynka | 24 g | 55 min | 8.8 % |
| Boil | Marynka | 16 g | 10 min | 8.8 % |
| Boil | Summit | 16 g | 10 min | 15.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 5 g | Boil | 12 min |