

Porter

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **44**
- SRM **33.3**
- Style **Brown Porter**

Batch size

- Expected quantity of finished beer **28.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **34.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.7 liter(s)**
- Total mash volume **23.6 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (50.8%)	81 %	4
Grain	Monachijski	1 kg (16.9%)	80 %	16
Grain	Viking Pale Ale malt	1 kg (16.9%)	80 %	5
Grain	Czekoladowy	0.3 kg (5.1%)	60 %	1200
Grain	Strzegom Karmel 150	0.3 kg (5.1%)	75 %	600
Grain	Strzegom Barwiący	0.3 kg (5.1%)	68 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Nugget	30 g	60 min	15 %
Aroma (end of boil)	Fusion UK	30 g	10 min	6.4 %

Yeasts

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