Ciemniuch - braciszek z Polski

- Gravity 14.7 BLG
- ABV **6.1** %
- IBU **34**
- SRM 39.2
- Style Dark American Lager

Batch size

- Expected quantity of finished beer 13.5 liter(s)
- Trub loss 5 %
- Size with trub loss 14.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 17.1 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.1 liter(s) / kg
- Mash size 12.2 liter(s)
- Total mash volume 16.2 liter(s)

Steps

- Temp 55 C, Time 10 min
 Temp 67 C, Time 60 min
 Temp 72 C, Time 10 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 12.2 liter(s) of strike water to 60.7C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 60 min at 67C
- Keep mash 10 min at 72C
- Keep mash 5 min at 78C
- Sparge using 8.9 liter(s) of 76C water or to achieve 17.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	3.15 kg <i>(79.7%)</i>	82 %	4
Grain	Weyermann - Carawheat	0.3 kg (7.6%)	77 %	110
Grain	Weyermann - Chocolate Wheat	0.3 kg (7.6%)	74 %	900
Grain	Carafa III	0.2 kg (5.1%)	70 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	24 g	60 min	7 %
Boil	Sybilla	14 g	20 min	7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
GĘSTWÓCH Saflager W 34/70	Lager	Slant	200 ml	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	whirlfloc	1 g	Boil	10 min