Mocny Czarny Dym 20l

- Gravity 15.7 BLG
- ABV 6.6 %
- IBU **36**
- SRM 41
- Style Foreign Extra 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 82 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18.3 liter(s)
- Total mash volume 24.4 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 68 C, Time 15 min
 Temp 68 C, Time 10 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 18.3 liter(s) of strike water to 76C
- Add grains
- Keep mash 15 min at 68C
- Keep mash 10 min at 68C
- Keep mash 60 min at 68C
- Keep mash 5 min at 78C
- Sparge using 13.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3.3 kg <i>(54.1%)</i>	79 %	6
Grain	Wędzony bukiem Viking Malt	1.1 kg <i>(18%)</i>	82 %	10
Grain	Fawcett - Pale Chocolate	0.3 kg <i>(4.9%)</i>	71 %	600
Grain	Chocolate Malt (UK)	0.3 kg <i>(4.9%)</i>	73 %	887
Grain	Jęczmień palony	0.4 kg (6.6%)	55 %	985
Grain	Brown Malt (British Chocolate)	0.3 kg <i>(4.9%)</i>	70 %	128
Grain	Barley, Flaked	0.4 kg (6.6%)	70 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	35 g	60 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
	••			•

Safale S-04	Ale	Dry	11.5 g	Safale