

american smoked wheat

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **23**
- SRM **3.4**
- Style **American Wheat or Rye Beer**

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 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **13.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **15 min** at **78C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.25 kg (49.9%)	80 %	4
Grain	Weyermann - Grodziski	2.26 kg (50.1%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Oktawia	25 g	65 min	7.1 %
Boil	Oktawia	10 g	7 min	7.1 %
Dry Hop	Oktawia	65 g	4 day(s)	7.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM50 Kłosy Kansas	Wheat	Liquid	125 ml	Fermentum Mobile