

15# Wędzony Stout

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **35**
- SRM **39.6**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **19.3 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (36.4%)	80 %	5
Grain	Wędzony bukiem Viking Malt	2 kg (36.4%)	82 %	10
Grain	Fawcett - Pale Chocolate	0.5 kg (9.1%)	71 %	600
Grain	Carafa II	0.5 kg (9.1%)	70 %	1100
Grain	Strzegom Karmel 150	0.5 kg (9.1%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	30 g	60 min	8.3 %
Boil	Cascade	20 g	20 min	8.3 %

Yeasts

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