American Stout 13

- Gravity 12.4 BLG
- ABV **5** %
- IBU 42
- SRM **41.3**
- Style American Stout

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 3 %
- Size with trub loss 10.4 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 12.9 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 6.8 liter(s)
- Total mash volume 9 liter(s)

Steps

- Temp **68 C**, Time **70 min** Temp **72 C**, Time **10 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 6.8 liter(s) of strike water to 75.9C
- Add grains
- Keep mash 70 min at 68C
- Keep mash 10 min at 72C
- Keep mash 5 min at 78C
- Sparge using 8.4 liter(s) of 76C water or to achieve 12.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.35 kg <i>(51.7%)</i>	80 %	5
Grain	Strzegom Monachijski typ I	0.5 kg <i>(19.2%)</i>	79 %	16
Grain	Simpsons - Coffee Malt	0.25 kg (9.6%)	74 %	296
Grain	Strzegom Karmel 300	0.15 kg <i>(5.7%)</i>	70 %	299
Adjunct	Jęczmień palony	0.23 kg <i>(8.8%)</i>	55 %	985
Adjunct	Briess - Chocolate Malt	0.13 kg <i>(5%)</i>	60 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	7.5 g	60 min	13.2 %
Boil	Simcoe	10 g	15 min	13.2 %
Boil	Simcoe	7.5 g	5 min	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Name	libbe	1 01111	Aillouit	Laboratory

Cafala C 04	A.L.	D	11	C - f - l -
Safale S-04	Ale	Dry	1	Safale