# **US Stout - simple TB**

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **44**
- SRM 41.9
- Style American Stout

#### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 1 %
- Size with trub loss 26 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30 liter(s)

# **Mash information**

- Mash efficiency 74 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.6 liter(s)
- Total mash volume 26.2 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 19.6 liter(s) of strike water to 76C
- Add grains
- Keep mash 70 min at 68C
- Keep mash 10 min at 72C
- Keep mash 5 min at 78C
- Sparge using 17 liter(s) of 76C water or to achieve 30 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.4 kg <i>(51.9%)</i>	80 %	5
Grain	Monachijski	1.25 kg <i>(19.1%)</i>	80 %	16
Grain	Simpsons - Coffee Malt	0.65 kg (9.9%)	74 %	296
Grain	Strzegom Karmel 300	0.35 kg <i>(5.3%)</i>	70 %	299
Grain	Jęczmień palony	0.55 kg <i>(8.4%)</i>	55 %	985
Grain	Chocolate Malt (US)	0.35 kg <i>(5.3%)</i>	60 %	690

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	20 g	60 min	13.2 %
Boil	Simcoe	25 g	15 min	13.2 %
Boil	Simcoe	20 g	5 min	13.2 %

#### **Yeasts**

Name	Type	Form	Amount	Laboratory
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Wyeast - 1728   Ale   Slant   Scottish Ale	80 ml	Wyeast Labs
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