# Dry Stout 13.5 blg a la Guiness

- Gravity 13.8 BLG
- ABV 5.7 %
- IBU **26**
- SRM **33.8**
- 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 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.3 liter(s)
- Total mash volume 20.4 liter(s)

# **Steps**

- Temp 64 C, Time 45 min
  Temp 72 C, Time 30 min
  Temp 77 C, Time 10 min

## Mash step by step

- Heat up 15.3 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 30 min at 72C
- Keep mash 10 min at 77C
- Sparge using 15.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2.2 kg <i>(39.3%)</i>	82 %	4
Grain	Viking Pale Ale malt	2.2 kg <i>(39.3%)</i>	80 %	5
Grain	Special B Castle	0.3 kg <i>(5.4%)</i>	70 %	350
Grain	Simpsons - Roasted Barley	0.2 kg (3.6%)	70 %	1600
Adjunct	Płatki owsiane	0.5 kg (8.9%)	85 %	3
Grain	Simpsons - Chocolate Malt	0.2 kg (3.6%)	73 %	1200

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus US	15 g	60 min	15.5 %
Aroma (end of boil)	East Kent Goldings	10 g	10 min	5.1 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	FERMENTIS