## old ale

- Gravity 20.5 BLG
- ABV **9** %
- IBU **51**
- SRM **21**
- Style Old Ale

### **Batch size**

- Expected quantity of finished beer 16 liter(s)
- Trub loss 7 %
- Size with trub loss 17.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19.7 liter(s)

### **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.1 liter(s)
- Total mash volume 25.4 liter(s)

### **Steps**

- Temp 72 C, Time 90 min
  Temp 78 C, Time 5 min

# Mash step by step

- Heat up 19.1 liter(s) of strike water to 80.7C
- Add grains
- Keep mash 90 min at 72C
- Keep mash 5 min at 78C
  Sparge using 7 liter(s) of 76C water or to achieve 19.7 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.5 kg <i>(80.2%)</i>	80 %	5
Grain	Abbey Castle	0.25 kg <i>(3.6%)</i>	80 %	45
Grain	Aromatic Malt	0.25 kg <i>(3.6%)</i>	78 %	51
Liquid Extract	cukier trzcinowy	0.5 kg <i>(7.3%)</i>	70 %	40
Grain	Weyermann Specjal W	0.25 kg <i>(3.6%)</i>	68 %	300
Grain	Carafa III specjal	0.11 kg <i>(1.6%)</i>	70 %	1034

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	45 g	60 min	11 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	Fermentis

#### **Extras**

Type	Name	Amount	Use for	Time
Type	Haine	Amount	036 101	111116

Flavor płatki dębowe po 25 g	Secondary	60 day(s)
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