# **Porter Angielski**

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **25**
- SRM **25.9**
- Style Brown Porter

### **Batch size**

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- · Boil time 60 min
- Evaporation rate 20 %/h
- Boil size 13.2 liter(s)

#### **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 10.1 liter(s)
- Total mash volume 12.6 liter(s)

## **Steps**

- Temp **66 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up 10.1 liter(s) of strike water to 71.7C
- Add grains
- Keep mash 45 min at 66C
- Keep mash 15 min at 72C
- Keep mash 1 min at 78C
- Sparge using 5.6 liter(s) of 76C water or to achieve 13.2 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	1.8 kg <i>(71.4%)</i>	81 %	4
Grain	Abbey Castle	0.2 kg <i>(7.9%)</i>	80 %	45
Grain	Special B Malt	0.2 kg <i>(7.9%)</i>	65.2 %	315
Grain	Strzegom Wiedeński	0.2 kg <i>(7.9%)</i>	79 %	10
Grain	Chocolate Malt (UK)	0.12 kg (4.8%)	73 %	1175

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Izabella	10 g	60 min	5.1 %
Boil	lunga'10	5 g	60 min	11 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
WLP001 - California Ale Yeast	Ale	Slant	80 ml	White Labs