## **Pale**

- Gravity **10.7 BLG** ABV **4.3** %
- IBU **40**
- SRM **2.9**
- Style American Pale Ale

## **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 **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 14.7 liter(s)
- Total mash volume 18.9 liter(s)

## **Steps**

- Temp 65 C, Time 30 min
  Temp 72 C, Time 20 min

# Mash step by step

- Heat up 14.7 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 30 min at 65C
- Keep mash 20 min at 72C
- Sparge using 14.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

#### **Fermentables**

| Туре  | Name                 | Amount               | Yield  | EBC |
|-------|----------------------|----------------------|--------|-----|
| Grain | Briess - Pilsen Malt | 4 kg (95.2%)         | 80.5 % | 2   |
| Grain | Carahell             | 0.2 kg <i>(4.8%)</i> | 77 %   | 26  |

# Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Marynka           | 30 g   | 60 min | 10 %       |
| Boil    | Lublin (Lubelski) | 30 g   | 10 min | 4 %        |

### **Yeasts**

| Name         | Туре | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11 g   |            |