# Witek kolega z wojska

- Gravity 12.4 BLG
- ABV ----
- IBU **16**
- SRM **3.9**
- Style Witbier

### **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 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

### **Steps**

- Temp 64 C, Time 60 min
  Temp 72 C, Time 30 min

# Mash step by step

- Heat up 13.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 30 min at 72C
- Sparge using 16.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	ЕВС
Grain	Oats, Flaked	0.5 kg <i>(11.1%)</i>	80 %	2
Grain	Strzegom Pilzneński	2 kg <i>(44.4%)</i>	80 %	4
Grain	Wheat, Flaked	1 kg (22.2%)	77 %	4
Grain	Pszeniczny	1 kg (22.2%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	60 min	10 %
Boil	Cascade	10 g	15 min	6 %
Boil	Cascade	10 g	0 min	6 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove jack's m21 belgian wit	Ale	Dry	10 g	

### **Extras**

Туре	Name	Amount	Use for	Time
Spice	kolendra	15 g	Boil	10 min

Flavor	l skrórka bergamotki	l 20 a	Boil	l 20 min
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