### AIPA4

- Gravity 14.7 BLG
- ABV ----
- IBU **89**
- SRM **7.9**
- Style American IPA

### **Batch size**

- Expected quantity of finished beer 18.5 liter(s)
- Trub loss 5 %
- Size with trub loss 19.4 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 23 liter(s)

# **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

## **Steps**

- Temp **62 C**, Time **20 min** Temp **72 C**, Time **40 min**
- Temp 79 C, Time 10 min

# Mash step by step

- Heat up 15 liter(s) of strike water to 69C
- Add grains
- Keep mash 20 min at 62C
- Keep mash 40 min at 72C
- Keep mash 10 min at 79C
- Sparge using 13 liter(s) of 76C water or to achieve 23 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4 kg (80.1%)	80 %	
Grain	Strzegom Monachijski typ I	0.8 kg <i>(16%)</i>	79 %	18
Grain	Strzegom Karmel 150	0.194 kg (3.9%)	75 %	150

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	40 g	60 min	12 %
Aroma (end of boil)	Chinook	18 g	20 min	13 %
Aroma (end of boil)	Amarillo	25 g	15 min	9.5 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Slant	174 ml	

### **Extras**

Туре	Name	Amount	Use for	Time
- 71				

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Spice   rozmaryn   20 g   Boil	120 min
Spice prozinarym pzo g pom	20 111111