# Co - Pils na XX warkę!

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **28**
- SRM **4.2**
- Style German Pilsner (Pils)

#### **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 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.1 liter(s)
- Total mash volume 21.5 liter(s)

### **Steps**

- Temp **53 C**, Time **10 min** Temp **63 C**, Time **45 min** Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up 16.1 liter(s) of strike water to 58.5C
- Add grains
- Keep mash 10 min at 53C
- Keep mash 45 min at 63C
- Keep mash 10 min at 72C
- Keep mash 5 min at 76C
- Sparge using 14.6 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Castle Malting - Pilzneński 6-rzędowy	3.5 kg <i>(65.1%)</i>	80 %	5
Grain	Briess - Carapils Malt	0.37 kg <i>(6.9%)</i>	74 %	3
Grain	BESTMALZ - Best Pilsen	1.45 kg <i>(27%)</i>	80.5 %	4
Grain	Weyermann - Acidulated Malt	0.06 kg (1.1%)	80 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	30 g	60 min	5.4 %
Boil	Tradition	20 g	20 min	5.4 %
Boil	Hersbrucker	50 g	5 min	3 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
WLP838 - Southern German Lager Yeast	Lager	Liquid	12 ml	White Labs

