#7 pilsale

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **25**
- SRM 4.8
- Style Kölsch

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 50 min
- Evaporation rate 5 %/h
- Boil size 24 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

• Temp 66 C, Time 60 min

Mash step by step

- Heat up 15 liter(s) of strike water to 73.7C
- · Add grains
- Keep mash 60 min at 66C
- Sparge using 14 liter(s) of 76C water or to achieve 24 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.5 kg (90%)	81 %	4
Grain	Strzegom Karmel 30	0.5 kg <i>(10%)</i>	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	30 g	50 min	4.5 %
Boil	Saaz (Czech Republic)	10 g	40 min	4.5 %
Boil	Saaz (Czech Republic)	10 g	30 min	4.5 %
Boil	Saaz (Czech Republic)	10 g	20 min	4.5 %
Boil	Saaz (Czech Republic)	10 g	10 min	4.5 %
Aroma (end of boil)	Saaz (Czech Republic)	10 g	0 min	4.5 %
Whirlpool	Saaz (Czech Republic)	20 g	0 min	4.5 %

Yeasts

Name Type	Form	Amount	Laboratory
-----------	------	--------	------------

				·
Safala LIC OF	A I	Claus	200	Cormo ontio
Satale US-US	Ale	Slant	300 ml	i Fermentis
00.0.0	•	0.0		