Niemiecki Księciunio

- Gravity 12.1 BLG
- ABV ---
- IBU 28
- SRM **9**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.5 liter(s)
- Total mash volume 20.6 liter(s)

Steps

- Temp **64 C**, Time **70 min** Temp **74 C**, Time **20 min**
- Temp 78 C, Time 0 min

Mash step by step

- Heat up 15.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 70 min at 64C
- Keep mash 20 min at 74C
- Keep mash 0 min at 78C
- Sparge using 17.5 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pszeniczny Heidenberg	2.5 kg <i>(48.5%)</i>	82 %	3
Grain	Strzegom Pilzneński	2.5 kg <i>(48.5%)</i>	80 %	4
Grain	Strzegom Karmel 300	0.15 kg <i>(2.9%)</i>	70 %	299

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Huell Melon	20 g	15 min	7.5 %
Aroma (end of boil)	Yellow Sub	20 g	15 min	7.3 %
Aroma (end of boil)	Mandarina Bavaria	20 g	15 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
W34/70	Lager	Dry	20 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
- 71				

Elizabeth and	84 1 1 1 1 1 1	_	Б 1	1 - '
Fining	Mech Irlandzki	1 5 a	Boil	1 15 MIN
9	i iccii ii iaiiazi	<i>y</i> 9	50	±3