Toporek4

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **33**
- SRM **4.3**
- Style Bohemian Pilsener

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 14.1 liter(s)
- Total mash volume 18.8 liter(s)

Steps

- Temp **55** C, Time **10 min** Temp **63** C, Time **40 min** Temp **72** C, Time **20 min**
- Temp **76 C**, Time **20 min**

Mash step by step

- Heat up 14.1 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Keep mash 20 min at 76C
- Sparge using 15.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4 kg (85.1%)	80 %	4
Grain	Strzegom Wiedeński	0.5 kg <i>(10.6%)</i>	79 %	10
Grain	Strzegom Karmel 30	0.2 kg <i>(4.3%)</i>	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Bohemie	20 g	60 min	6 %
Boil	Bohemie	20 g	30 min	6 %
Boil	Bohemie	25 g	15 min	6 %
Dry Hop	Bohemie	25 g	5 day(s)	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Gozdawa W 34/70	Lager	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	7 g	Boil	15 min